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TRANSPORTATION ENERGY CONSERVATION DATA BOOK

A Selected, Annotated Bibliography, Edition 3

Ву

A. R. Ehrenshaft

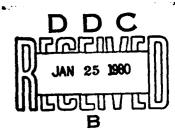
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November 1978

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Oak Ridge National Laboratory Oak Ridge, Tennessee

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U. S. DEPARTMENT OF ENERGY

Division of Transportation Energy Conservation

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A SELECTED BIBLIOGRAPHY, EDITION 3

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Energy and Environmental Response Center Information Center Complex

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FOREWORD

In January 1976, the Transportation Energy Conservation Division (TEC) of the Department of Energy (DOE) contracted with the Oak Ridge National Deboratory (ORNL) to develop a data base which would be used by the TEC staif in evaluation of current and proposed transportation-related technologies. In conjunction with this data collection and analysis activity, the ORNL Transportation Program is developing a comprehensive library of documents relevant to transportation end-use activities and energy conservation; this document collection is managed by the Energy and Environmental Response Center of the Information Center Complex at ORNL.

The first edition of the Transportation Energy Conservation Data Book¹ was published in October 1976. Four quarterly supplements²⁻⁵ and the Transportation Energy Conservation Data Book, Edition 1.5⁶ were issued to augment the original document; each included an annotated bibliography. In October 1977, Transportation Energy Conservation Data Book, Edition 2⁷ was published. As a result of the extensive development of the collection

¹A. S. Loebl, D. J. Bjornstad, D. F. Burch, E. B. Howard, J. F. Hull, D. G. Madewell, N. S. Malthouse, and M. C. Ogle. 1976. Transportation energy conservation data book, edition 1. ORNL-5198. Oak Ridge National Laboratory, Oak Ridge, Tenn.

²D. B. Shonka and A. S. Loebl. 1976. Transportation energy conservation data book, supplement I. ORNL-5232. Oak Ridge National Laboratory, Oak Ridge, Tenn.

³D. B. Shonka. 1977. Transportation energy conservation data book, supplement II. ORNL-5247. Oak Ridge National Laboratory, Oak Ridge, Tenn.

⁴A. S. Loebl. 1977. Transportation energy conservation data book, supplement III. ORNL-5248. Oak Ridge National Laboratory, Oak Ridge, Tenn.

⁵D. B. Shonka, A. S. Loebl, and P. D. Patterson. 1977. Transportation energy conservation data book, supplement IV. ORNL-5248. Oak Ridge National Laboratory, Oak Ridge, Tenn.

⁶D. B. Shonka, A. S. Loebl, M. C. Ogle, M. L. Johnson, and E. B. Howard. 1977. Transportation energy conservation data book, edition 1.5. CONS/7405-1. U.S. Energy Research and Development Administration, Washington, D.C.

⁷D. B. Shonka, A. S. Loebl, and P. D. Patterson. 1977. Transportation energy conservation data book, edition 2. ORNL-5320. Oak Ridge National Laboratory, Oak Ridge, Tenn.

of documents relevant to transportation energy conservation, Transportation Energy Conservation Data Book: A Selected, Annotated Bibliography, Edition 2^8 was published as a separate document and was made available on a limited basis.

Due to the favorable response to that publication, Transportation Energy Conservation Data Book: A Selected Bibliography, Edition 3 is also being published as a separate report. This volume is a selected, keyworded bibliography of 819 references that represent the most current and relevant documents dealing with transportation energy demand and conservation. Also included are ten reviews of important data sources used in compiling Transportation Energy Conservation Data Book, Edition 3. Some of these reports were prepared for the TEC Division of DOE (e.g., SRI's reports on rail energy use and diesel cars); others were developed for agencies such as the National Academy of Sciences, the Congressional Budget Office, and the Department of Transportation.

Transportation Energy Conservation Data Book: A Selected Bibliography, Edition 3 was prepared not only to augment the Transportation Energy Conservation Data Book, Edition 39 and to assist TEC, but also to better document the developing resources at ORNL. Users are encouraged to send comments concerning errors or omissions, areas of emphasis, and document organization to the Data Management and Analysis Group, Energy Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee 37830.

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⁸E. B. Howard, B. Y. Barber, A. C. Jordan, and C. C. Seaborn. 1977. Transportation energy conservation data book: a selected, annotated bibliography, edition 2. ORNL/EIS-114 (Part 2 of ORNL-5320). Oak Ridge National Laboratory, Oak Ridge, Tenn.

⁹D. B. Shonka, ed. 1978. Transportation energy conservation data book, edition 3. ORNL-5493. Oak Ridge National Laboratory, Oak Ridge, Tenn.

ACKNOWLEDGMENTS

The authors would like to acknowledge the support of Philip Patterson, Division of Transportation Energy Conservation of the Department of Energy, and the authors of the Transportation Energy Conservation Data Book, Edition 3 — Debbie Shonka, David Greene, Axel Rose, Jennifer Hill, Ken Reed, Eric Chen, Tim Gangaware, Brad Murphy, and Gwen Walton — who provided helpful suggestions and guidance in the preparation of this bibliography. Finally, thanks to Sherry Alcorn and Faye Fletcher of the Information Center Complex Computer Production Group, who carried out the computer production of the report, and to Carol McGlothin, Information Center Complex Publications Office, for editorial assistance.

TRANSPORTATION ENERGY CONSERVATION DATA BOOK: A SELECTED BIBLIOGRAPHY, EDITION 3

A. R. Ehrenshaft, B. Y. Barber, P. J. Carroll, L. K. Plemons, P. A. Purnell, and R. S. Weaver

HIGHLIGHTS

This bibliography, the second in a series of reports on energy conservation and consumption in the transportation sector, was compiled as part of the continuing technical information support provided by the Energy and Environmental Response Center (EERC) to the Energy Division of the Oak Ridge National Laboratory. The EERC maintains an on-line bibliographic data base documenting energy conservation and consumption in various economic sectors. The citations in this bibliography were selected from a comprehensive file of transportation materials.

A companion volume, Transportation Energy Conservation Data Book, Edition 3 (ORNL-5493) is an encyclopedia of statistical data on energy utilization by major transportation modes, research and development of alternate transportation modes and fuels (electric vehicles and alcohol fuels), and other pertinent factors influencing energy consumption in the transportation sector. These same subjects are included in this bibliography, which is a desk-top compilation of references. The data in the data book were taken from certain key research studies. Reviews of these studies are included in this bibliography.

All references are keyworded and arranged alphabetically by author or corporate author if individual authors are not cited in the document. Reports sponsored by the Transportation Energy Conservation Division of the Department of Energy are listed in a separate section. Author, corporate author, sponsor, report number, keyword, and permuted title indexes are provided.

INTRODUCTION

Of the 71.1 quads of energy consumed in the United States in 1975, 18.5 quads were used by the transportation sector in the form of oilderived fuels — gasoline for automobiles; diesel fuels for trucks, trains, and buses; and kerosene for jet aircraft. Major conservation efforts have been launched by the Division of Transportation Energy Conservation (TEC) of the Department of Energy to improve the efficiency of conventional vehicles and to develop electric vehicles and alternate fuels for gasoline. To support TEC's program, the Oak Ridge National Laboratory compiled a desktop reference of transportation statistics.

As a companion volume to the Transportation Energy Conservation Data Book, Edition 3 (ORNL-5493), this bibliography provides references on energy consumption by major transportation modes; conservation alternatives; research, development, and demonstration of alternate modes of transportation and fuels; and other factors influencing energy utilization in the transportation sector. Reviews of ten selected studies documenting energy use by different transportation modes are included in this bibliography. Reports sponsored by the Department of Energy (formerly the Energy Research and Development Administration), Division of Transportation Energy Conservation, are listed in a separate section. These references are also included in the main bibliography.

The 819 references contained in this bibliography are an update of Transportation Energy Conservation Data Book: A Selected, Annotated Bibliography, Edition 2 and are alphabetically arranged by author or corporate author. The sample reference below illustrates the format.

Sample

Author -→ Martini. W.R. → Washington, University of, Joint Center Corporate author for Graduate Study Address: 100 Sprout Rd., Richland, WA 99352 Title: Stirling Engine Design Manual Publication description ----- Final Report, Report No. DOE/NASA/3152-78/1. NASA CR-135382, 370 p. Publication date -1978, April Sponsor: U.S. Dept. of Energy, Division of Transportation Energy Conservation; National Aeronautics and Space Administration, Lewis Research Center Keywords: STIRLING ENGINES; DESIGN; MANUALS; BIBLIOGRAPHIES; PERFORMANCE; OPTIMIZATION; SIMULATION; MODELS; DIAGRAMS; RESEARCH Availability: NTIS

The following indexes are provided: (1) author, (2) corporate author (the organization which performed the study), (3) sponsor (the organization which provided partial or complete funding for the study), (4) report number, (5) keywords (words which describe the main concepts of the document), and (6) permuted title. The permuted title index lists each document alphabetically by principal words in the title.

This bibliography was compiled as a result of the continuing technical information support which the Energy and Environmental Response Center, Information Center Complex, provides to the Energy Division of the Oak Ridge National Laboratory. These citations were selected from a comprehensive file of over 3000 documents concerning transportation energy consumption and conservation. This on-line retrievable data base is continually expanded and updated.

AVAILABILITY OF REPORTS

If no information on document availability is provided, or if only a price is listed, the document may be obtained from either the corporate author or the sponsor. Explanation of other availability information in citations is given below:

GPO - For sale by the Superintendent of Documents U.S. Government Printing Office Washington, D.C. 20402 (Prices subject to change)

NTIS — For sale by the National Technical Information Service U.S. Department of Commerce Springfield, Virginia 22161 (Prices subject to change)

REVIEWS OF SELECTED STUDIES

COMPARISON OF U.S. ENVIRONMENTAL PROTECTION AGENCY FUEL ECONOMY RATINGS WITH ON-THE-ROAD EXPERIENCE

The U.S. Environmental Protection Agency (EPA) fuel economy ratings provide a complete data base for estimating fuel economy trends, but there has been much debate concerning whether these ratings are representative of actual fuel economy experienced on the road. Energy and Environmental Analysis, Inc., in collaboration with the U.S. Department of Energy, has completed the first significant contribution towards resolving this issue.

Their study addresses whether EPA certification test results reflect actual on-the-road fuel economy for recent model years (1974-1977) and whether improvements in average EPA fuel economy with successive model years can be viewed as an expected reduction in actual fuel consumed per automobile-mile.

In its current phase, the study restricts its attention to available fuel economy measurements reported from (1) drivers' experiences (fleets and individual consumers) and (2) driving cycle results obtained from dynamometer and road tests. These observations, to be compared with each other and with EPA certification results published in the well-known mileage guide, fall into five categories:

1. Drivers' experiences

- a. Consumer driving records in which drivers kept track of gasoline purchased and miles driven. Although this is the most ideally suited data base for the analysis, this source consists primarily of surveys by private corporations (an automobile manufacturer and several oil companies).
- b. Owner estimates not based on actual measurements. These data are taken from the EPA emission factors program as well as from consumer complaint files.

2. Driving cycle results

a. <u>Fleet driving records</u> from privately (several corporations) and publicly (state governments) owned fleets. This data base comprises more observations than any other on-the-road data source.

- b. <u>In-use dynamometer tests</u>, some of which were performed as part of the EPA emissions factor program. The remainder were carried out by several corporations (primarily oil companies), many of which supplied consumer driving records as well.
- c. Road tests which measure on-the-road fuel economy on prescribed driving cycles (e.g., Consumers Union).

Approximately 5000 in-use vehicles representing model years 1974 through 1977 comprise the data base summarized in Table 1.

The study systematically compares these observations with EPA certification test results on a model-to-model basis in search of various types of discrepancies:

- 1. Absolute differences between EPA ratings and on-the-road experience
- 2. Relative differences (i.e., whether the EPA-implied ranking of models corresponds with the ranking from actual experience)
- 3. Variation of the discrepancies over time (more minor effects, among manufacturers for example, are also explored)

The causes for the discrepancies, although discussed only briefly in the study, were seen to stem from two sources: (1) vehicle differences which reflect the extent to which the prototype EPA-tested vehicle represents all cars of that model type and which would be seen in a comparison of EPA certification ratings with in-use dynamometer results and (2) operational differences which would be seen in a comparison of the in-use dynamometer tests and on-the-road performance (the effect of variable driving practices among vehicles tested was felt to be suppressed in the aggregation of results for each model type).

Alternative statistical techniques were tested, and the final form of the regression analysis was based on a simple linear relationship between on-the-road and EPA fuel economy measurements:

on-road miles per gallon = $\alpha + \beta *$ (test miles per gallon). (1)

Within each of the five basic data types, the average of (often several) in-use results for each model was used to avoid undue weighting of a model with many observations. (The results changed significantly between individual and aggregated treatment of models.) A comparison of two data sets involved a linear regression (Eq. 1) of these average data by model type.

Table 1. Summary of data sources for comparison of in-use experience with BPA certification results

Source	Model year	Total number of data points	Fleet operations	Owners estimates	Consumer	Dynamometer tests ^a	Road tests ^A
EPA certification Union Oil	1974–1977	1831			>	ပပ	S
Jupont General Motors Mobil Oil Shell Oil	1974–1976 1975–1976 1974–1977 1975–1977	1714 63 30			< × × ×	ာ ပပ	c
Motor Trend Shell Canada Consumer Letters Consumers Union	1975 1975 1974–1977 1975–1977	121 46 134 83		×	×	ပ	• •
TRW Maryland Department of Transportation Maine Department of Transportation	1974–1977 1974–1977 1974–1977	77 845 18	× × ×				
FPA emission factors data Industrial hydrocarbons J. Glass Leasing	1974–1976 1976 1977	1287 1 5	××	×		ပ	
MeV Jersey Department of Transportation Texaco Oil EPA API ATET Amoco Oil	1974–1975 1974–1977 1974–1976 1974–1975 1976	211 38 687 4075 156	* ***		× ×	υ	

 d briving cycle: C - certification test procedure; S - SAE driving cycle; 0- other.

Source: Compiled from B. D. McNutt, D. Pirkey, R. Dulla, and C. Miller. 1978. A comparison of fuel economy results from EPA tests and actual in-use experience, 1974-1977 model year cars. U.S. Department of Energy, Washington, D.C. Tables 2a and 2b.

To determine which observations would provide a valid representation of on-the-road experience to compare with EPA tests, the five basic data types were analyzed with the following conclusions:

- 1. Road-test fuel economy results (Consumers Union and Motor Trend) are systematically higher than on-the-road experience.
- 2. Owner estimates compare quite closely with actual on-the-road measurements but are eliminated from the final analysis because of their inherent uncertainty. As expected, a separate set of owner estimates from consumer complaints are considerably lower than on-the-road experience, by an average of 1 mpg.
- 3. In-use dynamometer test results compare fairly closely with EPA ratings, with the results for each model year falling systematically above the ratings for low-mileage cars and below the ratings for high-mileage cars.
- 4. Fleet and consumer-driving fuel economy records give sufficiently similar results for all model years so that they can be combined for comparison with EPA tests.

With this preliminary analysis, fleet results combined with consumerdriving results were adopted as the data base most representative of onthe-road experience. These results were compared with EPA certification (composite, city) and in-use dynamometer test results.

The results of comparing these on-the-road results with EPA composite fuel economy ratings for each model year are summarized in the linear fits in Fig. 1. The EPA tests fairly closely approximate on-the-road experience for 1974 models; they are progressively less representative with each newer model year through 1977. The divergence is substantial for higher-mileage cars. This analysis suggests that, for a car whose actual fuel economy is 20 mpg, the EPA testing overestimates actual fuel economy by 20% in 1976 and 30% in 1977.

Throughout the analysis, the effects of vehicle mileage are obviously important but are difficult to quantify; the sample would ideally include 1974 model-year cars with fuel economy records from 1974, when they were new, as well as from a more recent year. In the study, no adjustment was made for vehicle mileage with the justification, supported by an earlier study, that fuel economy tends to improve during a vehicle's first few years.

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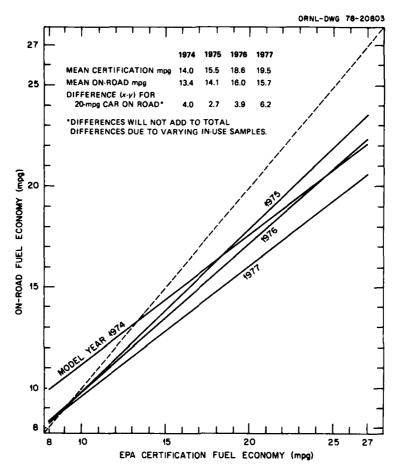


Fig. 1. Linear relation of EPA certification to on-road fuel economy for model years 1974 through 1977. Source: Compiled from B. D. McNutt, D. Pirkey, R. Dulla, and C. Miller. 1978. A comparison of fuel economy results from EPA tests and actual in-use experience, 1974-1977 model year cars. U.S. Department of Energy, Washington, D.C. Fig. 8a-8d, pp. 31-34.

An interesting result is that if EPA city instead of composite results are used in the analysis, the same trend of increasing discrepancy with recent model years is evident. For 1974 models, EPA city tests underestimate on-the-road performance, but in 1977 they overestimate a 20-mpg performance by 15%. Thus, the EPA city rating, which is viewed by many as the "worst" fuel economy a car is likely to experience, actually underestimates actual mileage for recent models.

Given this absolute discrepancy between EPA results and actual fuel economy, an analysis of ranking was applied to the observations to determine whether EPA results provide a valid relative ranking of models for any model year. For each comparison, the likelihood of a reversal of rank for a given miles-per-gallon difference was calculated. For on-the-road compared with EPA results, the likelihood is 40% for a difference of 1 mpg but is only 10% if the results differ by 4 mpg. Because EPA composite tests for many models overestimate on-the-road performance by 4 mpg or more, the ranking may apply to more models than one could infer from the way the conclusions are presently stated in the report. In the next phase of the study, alternative ways of presenting the ranking analysis should be explored.

The study realistically presents its conclusions as preliminary, with plans for augmenting the data base and applying more sophisticated statistical methods. A major effort in augmenting the data base is needed. Answering unresolved questions and verifying preliminary conclusions will require a new large set of systematic measurements by individual drivers so that accuracy and consistency of data can be assured. (The small set of "consumer driving" data in this study were generated by corporations and to some extent may be inherently similar to fleet data.) With a planned extensive data collection program, vehicle mileage could become a significant variable in the analysis to help explain the trends seen for successive model years. Further resolution of EPA results versus actual fuel economy results is sufficiently important to warrant a major data collection effort. The methodology developed for this study may well serve as the model for future analyses of the problem.

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McNutt, B. D., D. Pirkey, R. Dulla, and C. Miller. 1978. A comparison of fuel economy results from EPA tests and actual in-use experience, 1974-1977 model year cars. U.S. Department of Energy, Washington, D.C.

Reviewed by Margaret Fels Princeton University Princeton, New Jersey

THE CONGRESSIONAL BUDGET OFFICE'S REPORT ON ENERGY USE BY URBAN TRANSPORTATION MODES

In response to a request from Senator Lloyd Bentsen, the Congressional Budget Office prepared a summary of existing estimates of energy consumption by urban transportation modes and presented a systematic methodology for using these estimates to compare the energy efficiency of these modes.

The overall goal of the study was to assess the energy conservation potential of available modes.

In order to include a complete range of contributions to the overall energy use, a hierarchy of four levels of comprehensiveness was developed, as shown in Fig. 1. Energy intensiveness measures the energy required to move the vehicle and is generally expressed as energy use per passengermile (propulsion energy use per vehicle-mile divided by the average occupancy per vehicle). Line-haul energy includes in the propulsion energy secondary energy contributions from vehicle manufacture, station operation, etc. Modal energy measures the average energy consumed per mile of a trip, which may include an access mode in addition to the main mode, and extra nonproductive travel miles (circuity) due to transit routing. Program energy, the amount of energy saved per mile for a trip by the new mode when compared with the alternative mode used before the new mode was available, provides a measure of fuel savings to be attributed to new modes.

Because of the number of different estimates available for the components which make up these measures of energy efficiency, a range of estimates is carefully presented for each component. Tables 1 and 2 represent excellent summaries of existing estimates for vehicle propulsion energy and average occupancy. Similar tables for indirect energy requirements and access modes are included in the report. Tables 3-5 summarize the resulting middle estimate adopted in the study. Analogous tables are also provided for low and high estimates.

Although the estimates of line-haul and modal energy are valuable, the lengthy conclusions of the study are derived exclusively from the program energy. Unfortunately, as one proceeds up the hierarchy from energy intensiveness to program energy, the available data become very sparse and much less reliable. For example, the estimates of percentage of trip devoted to access are generalized from a single data point for the Lindenwold Line

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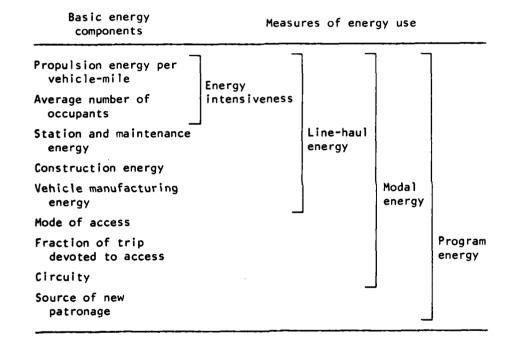


Fig. 1. Hierarchy of measures of energy use. Source: Adapted from D. Kulash, R. Mudge, and D. Prywse. 1977. Urban transportation and energy: The potential savings of different modes. Congressional Budget Office report to U.S. Senate Committee on Environment and Public Works. Serial No. 95-8. p. 8.

Table 1. Various estimates of vehicle propulsion energy for urban transportation

Mode of	Vehicle prop	Vehicle propulsion energy $^{\mathcal{Q}}$	
transportation	q(gdm)	(Btu/mile)	CILY (SYSTEM)
Automobile	7.5	16,790	General urban (six seat) $^{\mathcal{C}}$
	11.4	10,970	General urban $^{\mathcal{d}}$
	13.5	9,260	
	13.9	8,990	New York metropolitan area $(1972)^f$
	15.0	8,330	General urban (four seat)
	22.5	5,260	General urban (light car) $^{\mathcal{G}}$
Vanpool	0.6	13,900	Minneapolis h
Dial-a-ride	4.2	29,780	Los Angeles ¹
	7.0	17,850	General urban (gas vehicle) g
	7.3-9.0	13,900-17,130	Nine cities
	13.5	9,250	General urban (diesel vehicle) $artheta$
Heavy rail (old)	0.52	241,240	New York City (Staten Island Rapid Transit) k
	0.52	240,880	Boston (includes light rail) k
	1.33	93,830	Clevelandk
	1.35	92,560	New York City (Transit Authority) k
	1.44	86,680	Philadelphia ^k
	1.71	73,180	New York City (Transit Authority) f
	1.72	72,880	New York/New Jersey (PATH) K
	2.02-3.31	37,800-62,000	Five cities $(1964)^{\mathcal{I}}$
	2.04	61,400	New York City (Transit Authority)"
	2.09	59,800	New York/New Jersey (PATH)"
	2.41	51,879	$\mathtt{Chicago}^{\mathcal{K}}$
	4.00	31,300	${\tt Cleveland}^{\it e}$

Table 1 (continued)

Mode of	Vehicle prop	Vehicle propulsion energy	(
transportation	q(gdm)	(Btu/mile)	CILY (System)
Heavy rail (new)	1.07	117,100	San Francisco (BART) k
	1.15	109,020	Philadelphia (Lindenwold) ^K
	1.23	101,780	San Francisco (BART)"
	1.44	86,900	Philadelphia (Lindenwold)
	1.45	86,100	Philadelphia (Lindenwold)"
	1.78	70,080	San Francisco (BART, actual)"
	2.13	58,800	San Francisco (BART, projected)"
	2.23	56,175	
	2.57-2.84	44,000-48,580	San Francisco (BART, projected) p
Commuter rail	0.80	154,500	San Francisco;
	96.0	129,900	San Francisco ',
	1.14	109,350	Chicago (average) $^{\kappa}$,
	1.21	103,500	New York (average) $^{\kappa}$
	1.21	103,000	Philadelphia (average) ^K
	1.27	98,213	Bostonk
	1.80-2.90	43,150-69,540	Several cities $(1964)^{\iota}$
Light rail	1.19	105,000	Philadelphia (SEPTA, city) $^{\mathcal{G}}$
	1.45	86,400	Philadelphia (SEPTA, Red Arrow) $^{\mathcal{G}}$
	1.54	81,284	$Pittsburgh^{K}$
	1.66	75,147	San Francisco (MUNI).
	2.17	57,750	Rochester (proposed) $^{\iota}$
	2.41	51,992	Newark
Bus	3.6	34,940	New York City (Transit Authority) $^{\!f}$
	3.6	34,740	General urban (local bus) i
	3.8	32,660	General urban $^{\mathcal{G}}$
	4.0	31,270	Atlanta $(1976)^q$

Table 1 (continued)

Mode of	Vehicle prop	Wehicle propulsion energy a	()
transportation	$q^{(\mathrm{Sdm})}$	(Btu/mile)	
	4.1	30,500	$Cleveland^{\mathcal{C}}$
	4.4	28,430	Atlanta (projected, $2000)^q$
	8.4	26,310	Northern New Jersey ^f
	4.8	26,060	General urban (express bus)"
	5.6	22,330	Sakland (efficient bus) p
Personal rapid	6.2-13.1	9,560-20,202	Two systems
transit	9.6-31.0	4,030-13,000	General urban
Group rapid transit	4.2-15.4	8,100-30,000	General urban
Shuttle loop	7.4-11.4	11,000-17,000	General urban $^{\mathcal{C}}$
transit	5.3	23,800 25,200	Dallas (Airtrans) ^C Dallas (Airtrans) ^p
Downtown people mover	1.75	71,400	Los Angeles (proposed) ⁸

We all sources have used the same conversion factors between different energy units. For consistency, estimates have been converted by using the following equations; 1 gal gasoline = 125,071 Btu and 1 KWhr(e) = 10,500 Btu.

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Source: Adapted from D. Kulash, R. Mudge, and D. Prywse. 1977. Urban transpor-Office report to U.S. Senate Committee on Environmental and Public Works. Serial No. tation and energy: The potential savings of different modes. Congressional Budget Table 1.

Table 2. Various estimates of vehicle occupancy for urban transportation modes: averages for general urban areas and specific cities (systems)

Mode and city (system)	Vehicle occupancy (passenger-miles per vehicle-mile)	Load factor (passenger-miles per seat-mile)
Automobile		
National home-to-work and	- /	
work-related travela	1.4	0.28
Average for specific cities		
Philadelphia ^b	1.14	0.23
New Jersey ^c d	1.12-1.24	0.22-0.25
Albuquerque	1.43	0.29
Chicago"	1.43	0.29
San Diego $\frac{d}{d}$	1.48	0.30
Baltimore ^d	1.49	0.30
New York metropolitan are a_j^e	1.5	0.30
National urban area average $^{\mathcal{d}}$	1.63	0.33
Light rail		
Average for specific cities		
Newark ^f	9.4	0.15
Philadelphia (SEPTA, city) f	17.7	0.28
Philadelphia (SEPTA, Red Arrow)	17.8	0.28
San Francisco∫	23.6	0.37
$\mathtt{Cleveland}^{\mathcal{Q}}_{_{\mathcal{F}}}$	26.5	0.42
Pittsburgh ^J	27.8	0.44
Heavy rail		
Old systems		
New York/New Jersey $(PATH)^{J}$	17.3	0.24
Chicago (1973) $^{\mathcal{G}}$	18.6	0.26
New York City (Transit Authority,		
1973) \mathcal{G}	19.7	0.27
Boston (includes light rail)	25.6	0.36
${ t Chicago}^{J}$	20.7	0.29
Clevelandf	23.9	0.33
New York City (Transit Authority)	25.0	0.35
Philadelphia (SEPTA) f	28.8	0.40
New systems		
San Francisco $(BART)^J$	19.8	0.27
San Francisco (BART, 1975) g	21.4	0.30
Philadelphia (Lindenwold) \widehat{f}	22.5	0.31
National urban area averageh	24.5	0.34
Urban bus		
Average for specific cities		
Albuquerque $^{\mathcal{A}}$	4.9	0.10
Southern Connecticute	9.8	0.20
Chicago d	10.9	0.22
San Diego d	11.7	0.23

Table 2 (continued)

Mode and city (system)	Vehicle occupancy (passenger-miles per vehicle-mile)	Load factor (passenger-miles per seat-mile)
New York City (Transit		
Authority)e	13.8	0.28
Baltimore ^d .	19.1	0.28
National urban area average, 1973^h	11.5	0.23
Dial-a-ride		
Nine cities ^h	1.00-2.86	0.05-0.15
Seven cities $^{\hat{i}}$	0.8-3.3	0.04-0.17
Median	1.62	0.09
Commuter rail		
Average for specific cities		
New York metropolitan area f	24.2	0.24
${\tt Boston}^f$	25.6	0.26
Philadelphiaf	29.4	0.29
New York metropolitan area Chicagof	32.2	0.32
Burlington Northern	58.7	0.59
Chicago and Northwestern	47.7	0.48
Illinois Central	59.5	0.60
Milwaukee	50.2	0.50
Norfolk and Western	20.7	0.21
Rock Island	36.7	0.37
San Francisco ^J	47.5	0.48
National urban area average n	42.6	0.43
Vanpool ;		
Minneapolis (3M Company) $^{\mathcal{J}}$	10.5	0.87
Carpool		
New York/New Jersey		
(Port Authority) k	2.94	0.59
El Segunda, California $^{\mathcal{L}}$	3.09	0.62
Boston ^m	3.16	0.63
Connecticut ⁿ	3.70	0.74

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Table 3. Middle estimates of basic components of operating energy intensiveness and line-haul energy by urban transportation modes (Btu/vehicle-mile)

Mode	Propulsion energy	Average number of occupants	Station and maintenance energy	Construction energy	Vehicle manufacturing energy
Single-occupant automobile	11,000	1.0	2,000	125	1,100
Average automobile	11,000	1.4	2,000	125	1,100
Carpool	11,000	т	2,000	125	1,100
Vanpool	14,000	6	2,000	200	2,000
Dial-a-ride	15,500	1.6	2,000	200	2,000
Heavy rail (old)	61,000	24	6,000	3,000	1,500
Heavy rail (new)	75,000	21	15,000	4,000	1,500
Commuter rail	105,000	07	7,000	1,200	2,500
Light rail	75,000	20	7,000	1,700	2,000
Bus	30,000	11.5	006	370	1,200
Personal rapid transit	11,000	2	2,000	300	1,000
Group rapid transit	20,000	9	9,000	009	1,000
Shuttle loop transit	23,000	10	7,000	009	1,000

Source: Adapted from D. Kulash, R. Mudge, and D. Prywse. 1977. Urban transportation and effigy: The potential savings of different modes. Congressional Budget Office report to U.S. Senate Committee on Environment and Public Works. Serial No. 95-8. Table 7.

Table 4. Middle estimates of access, circuity, and source of patronage by urban transportation modes

Mode	Mode of access (%)	Percentage of trip devoted to access	Circuity (relative to trip by auto)	Percentage of new patrons by former mode
Automobile	NA^a	0	1.0	NA
Carpool	NA	0	1.15	15 bus 25 carpool 60 single-occupant auto
Vanpool	NA	0	1.2	5 bus 40 carpool 55 single-occupant auto
Dial-a-ride	NA	0	1.4	10 bus 25 walk 45 auto (15 taxi) 20 new trip ^b
Heavy rail (old)	20 bus 40 auto 40 walk	15	1.2	NA
Heavy rail (new)	10 bus 70 auto 20 walk	18	1.3	45 bus 35 auto 10 new trip ^b 10 other
Commuter rail	5 bus 15 walk 80 auto	18	1.3	30 bus 40 auto 10 new trip ^b 20 other
Light rail	20 bus 50 walk 30 auto	10	1.2	50 bus 30 auto 10 new trip 10 other
Bus (express)	25 auto 75 walk	10	1.1	25 bus 55 auto 10 new trip ^b 10 other

 $[^]a_b$ NA — Not applicable. b_b There is no diversion from a former mode; a person who previously did the new mode. not use a mode of urban transportation is using the new mode.

Source: Adapted from D. Kulash, R. Mudge, and D. Prywse. 1977. Urban transportation and energy: The potential savings of different modes. Congressional Budget Office report to U.S. Senate Committee on Environment and Public Works. Serial No. 95-8. Table 8.

Table 5. Middle estimates for various measures of energy requirements by urban transportation modes (Btu/passenger-mile)

Mode	Operating energy intensity	Line- haul energy	Modal energy	Program energy (net savings)
Single-occupant			<i>a</i>	<i>h</i>
automobile	11,000	14,220	14,220 ^a	\mathtt{NA}^b
Average automobile	7,860	10,160	10,160 ^a	NA
Carpool	3,670	4,740	5,450	4,890
Vanpool	1,560	2,020	2,420	7,720
Dial-a-ride	9,690	12,310	17,230	(12,350) ^c
Heavy rail (old)	2,540	3,100	3,990	NA
Heavy rail (new)	3,570	4,550	6,580	(980)°
Commuter rail	2,625	2,890	5,020	970
Light rail	3,750	4,280	5,060	30
Bus	2,610	2,820	3,070	3,590 ^d
Personal rapid transit	5,500	8,650	e	e
Group rapid transit	3,330	4,600	e	е
Shuttle loop transit	2,300	3,160	e	e

 $a_{
m By}$ definition, there are no access energy requirements for automobiles, so modal energy equals line-haul energy. $b_{\rm NA}$ — Not applicable.

Source: Adapted from D. Kulash, R. Mudge, and D. Prywse. 1977. Urban transportation and energy: The potential savings of different modes. Congressional Budget Office report to U.S. Senate Committee on Environment and Public Works. Serial No. 95-8. Table 9.

Energy loss.

dFor new express bus service. Conventional bus service would show smaller savings.

 $^{^{\}it e}$ Data not available for access modes and source of patronage since these modes are still largely under development.

commuter rail service combined with the authors' judgement: "The access factor is likely to be smaller for systems that are less suburb-oriented and for those with more extensive line-haul networks (such as buses)."

Data on access modes, circuities, and sources of new patronage from new lines are similarly created. The conclusions based on this evaluation of program energy point to vanpooling and buses as offering the greatest energy conservation potential, with rapid rail transit demonstrating a negative program energy due to an overall increase in energy consumed for travel after the institution of the new system.

The latter conclusion generated considerable controversy and culminated in a large set of rebuttals which appeared in the hearings.² The negative program energy for rail transit originates to a great extent from new trips generated by a new system: the net energy effect of new trips is to add energy to the total energy use for travel. Many critics objected to this method of energy accounting for new trips which, over the longer run, might lead to even greater energy use in the absence of the new mode. In addition, the study was criticized for comparing modes on an average basis rather than in the context of specific systems.

These comments notwithstanding, the Congressional Budget Office study presents the best, most concise summary of estimates of energy use by existing modes in the literature. Used in the proper context, these estimates can be valuable input for energy analyses of urban transportation systems.

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Reviewed by Margaret Fels Princeton University Princeton, New Jersey

THE ENERGY INFORMATION ADMINISTRATION'S 1977 ANNUAL REPORT TO CONGRESS

The Energy Information Administration 1977 Annual Report to Congress 1 outlines the activities of the Energy Information Administration (EIA) in 1977, presents historical data on the energy situation, and gives projections for energy development and use through the year 2000. The report is published in three volumes. Volume I describes the organization, responsibilities, activities, and accomplishments of each office within EIA. Volume II, Forecasts of Energy Supply and Demand, presents separate short-term and mid-term projections, assuming the continuation of existing energy policies, but with assumed variations in levels of economic growth, growth of oil and gas production, and real price in world oil. Volume III, Statistics and Trends of Energy Supply, Demand, and Prices, contains statistical charts and tables of exploration, development, production, processing, distribution, sale, and consumption of various energy sources, both past and present.

The EIA report is significant because it not only presents the current state of the energy situation, but it also forecasts the effects of existing energy policy. According to EIA, the United States has been a net importer of fossil fuels since 1953, with the gap between imports and exports increasing steadily. All EIA projections imply that existing U.S. energy policy will not be able to reduce this growing dependence on imports.

Assuming the continuation of existing energy policy, EIA projects that energy use through 1990 will grow at a lower rate than the growth rate experienced since 1960. This lower rate of energy use is a result of conservation and of consumer reaction to higher energy prices. However, domestic energy production is projected to increase at lower rates than the projected increase in consumption. Although rapid increases are projected in the domestic supply of coal, nuclear, and other domestic fuel sources, total domestic oil and gas production is projected to decrease or, at best, to be sustained at current levels. Thus, dependence on foreign oil and other imports will continue to grow.

The short-term and mid-term EIA projections were obtained from an integrated framework of several models incorporated with macroeconomic forecasts and energy supply and price assumptions (Fig. 1), assuming the continuation of existing energy policies. These assumptions were used to prepare projections based on combinations of energy demand, domestic energy supply, and increasing world oil prices. Because of possible future resource and environmental limitations on existing energy systems and because of EIA's use of historical relationships between economic growth and energy consumption, EIA did not make projections beyond the year 1990. Rather, they compared the EIA short-term and mid-term projections with long-term projections developed by other organizations. EIA's projections are in line with the range covered by these long-term projections.

The EIA report gives a historical view of the U.S. energy situation and an analysis of existing energy policy. Obviously, if these policies are changed, the results could vary widely. Thus, EIA's projections of the effect of new and emerging technologies are limited by the current governmental support for these technologies; any questions about the effects of more vigorous conservation efforts, new programs, and more support for the development of emerging technologies are not considered in this report.

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Reviewed by Gwendolyn H. Walton Oak Ridge National Laboratory Oak Ridge, Tennessee

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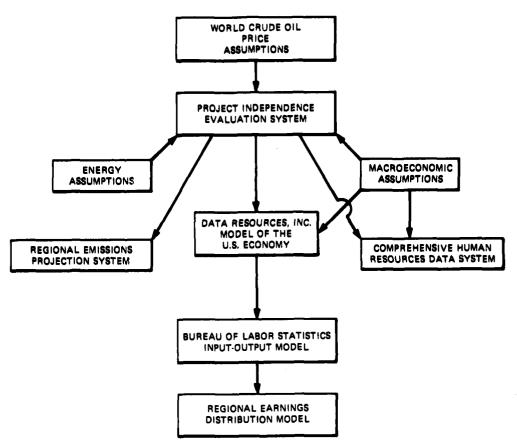


Fig. 1. Schematic representation of the energy/economic/environmental assessment system. Source: Adapted from Energy Information Administration. 1978. Energy Information Administration 1977 annual report to Congress, Vol. II. DOE/EIA-0036/1. U.S. Department of Energy, Washington, D.C. Fig. 2, p. 5.

THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM'S REPORT ON ENERGY INTENSITY OF TRANSPORTATION MODES

In 1977 the National Cooperative Highway Research Program (NCHRP) compiled a synthesis (NCHRP Synthesis 43) of transportation practices entitled Energy Effects, Efficiencies, and Prospects for Various Modes of Transportation. It emphasizes an analysis of transportation energy use data, concentrating on total direct consumption and conservation potential. In addition to an original analysis of the data, the report presents summary data from recent studies.* Energy efficiencies derived by the various studies are listed without criteria for evaluation or comparison of their accuracies. The synthesis contains basic national energy consumption data and includes a breakdown by sector, a disaggregation within the transportation sector by transport mode, and a chart illustrating national energy trends.

The overall design, operation, and use of several passenger and freight transport modes are examined and related to the energy efficiency of that mode. The following data are presented in Chapter 2, which deals with passenger transport modes:

- 1. Passenger-miles
- 2. Transportation services rendered
 - a. Vehicle-miles per year
 - b. Passenger-miles per year
 - c. Average vehicle occupancy
- 3. Fuel consumption
 - a. Gallons per year
 - British thermal units per year with percentage of total direct transportation energy
- 4. Average efficiency
 - a. British thermal units per passenger-mile
 - b. Passenger-miles per gallon

^{*}Data from Aerospace Corporation's Characterisation of the U.S. Transportation System and the Oak Ridge National Laboratory's Transportation Conservation Data Book: Edition 2 (ORNL-5320), both published after this report, are not included.

5. Fuel cost

- a. Percentage of total operating cost
- b. Percentage of total operating cost plus travel time cost Some disaggregated data are presented for each mode.

Automobile use accounts for 90% of all passenger-miles and for 97% of passenger-miles in trips less than 30 miles; therefore, it is given special attention in this study. Average miles per gallon of the new car fleets in 1970, 1974, and 1975 and projected values for the new car fleets in 1980 and 1985 are presented. These projections reflect both the driving habits of the population and anticipated technological changes in automobile manufacturing. Automobile weight, a major factor affecting mileage, can be reduced by various technological adjustments. The predicted fuel consumption values resulting from these and other changes are listed in the NCHRP synthesis. Special attention is also given to automobile fuel consumption and efficiency related to trip purpose.

The presentation of freight transportation data (Chapter 3) is similar to that for passenger data. It includes data for various freight transport modes:

- 1. Transportation services rendered
 - a. Vehicle-miles per year
 - b. Ton-miles per year
- 2. Fuel consumption
- 3. Average efficiency
 - a. British thermal units per ton-mile
 - b. Ton-miles per gallon

Most of the passenger and freight transport data are derived from 1972 statistics. Truck data are given special attention; disaggregations by duty and weight class are presented.* Pipeline transportation analysis is incomplete and inaccurate because of lack of data.

The authors of this synthesis recognized the pitfalls of a straight comparison of energy consumption data or British thermal units per passenger-mile among the different transport modes. For example, in a

^{*}Most waterborne statistics were taken directly from the U.S. Army Corps of Engineers, Waterborne Commerce of the United States Part 5, National Summaries, 1973.

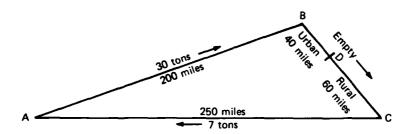
location with only one possible means of transportation (usually the automobile), a fair comparison cannot be made with other means of transport. Direct energy consumption and energy intensity alone are not always worthwhile information. Other factors such as the time factor and the hourly monetary value of the trip should be considered. In freight transport, British thermal units per ton-mile alone can be misleading. Some important factors to be considered in this case are the distance and speed at which the commodity is to be transported; the type, size, and density of the commodity; the cost of the commodity and the cost of its transport; and the availability of various transport modes. For example, water carriers transport long-haul bulk commodities; the railroads, dense commodities in large volume; and air carriers, small priority shipments. Trucks transport almost every commodity. The fact that the percentage of empty-haul-miles is different for each freight mode affects any comparison based strictly on British thermal units per ton-mile.

Figure 1, an example of a truck round trip, illustrates some of the factors that must be considered in analyzing energy efficiency. Varying any combination of percentage of empty-haul-miles, average miles per gallon, and amount and distance of cargo being hauled affects the energy efficiency results.

The authors asserted that their primary interest was not in restating the need for energy conservation or the need for implementation of policies to achieve greater conservation. However, a presentation of conservation techniques and a means for evaluation of the conservation potential of these techniques are presented in Chapter 4. For example, by using smaller cars Americans may save 361,000 bbl of gasoline per day; a savings of 84,000 bbl/day can be accomplished through the use of bus, train, and air carriers for intercity trips. Appendix B deals exclusively with fuel conservation techniques for automobiles and includes fuel economy potential by 1980 and 1985; relations among fuel economy, safety, and emissions; the effect of engineering and manufacturing "lead times" in forestalling implementation of fuel economy measures; test procedures to measure fuel economy; and means of enforcing an improvement standard.

The authors concluded that caution should be used in comparing energy efficiencies of the various transport modes. They also pointed to the need

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Full load out, long dead head for partial return load

A-B loaded, 30 tons, 200 miles at 3.5 mpg = 57.14 gal C-A loaded, 7 tons, 250 miles at 4.8 mpg = 52.08 gal 37 tons 109.22 gal

Ton-miles = (30 tons) × (200 miles) = 6000 ton-miles (7 tons) × (250 miles) = 1750 ton-miles 7750 ton-miles

B-D Empty, 60 miles at 6 mpg = 10.00 gal D-C Empty, 40 miles at 3 mpg (urban stop and go) = 13.33 gal 23.33 gal

Total = 132.55 gal

Ton-miles/gal = 7750 ton-miles \div 132.55 gal = 58.47 ton-miles/gal Tons shipped per gallon = 37 tons \div 132.55 gal = 0.2791 ton/gal Empty mileage of 100 miles \div 550 miles - 18.18%

Fig. 1. Hypothetical example of intercity truck operations analyzed for fuel consumption. Source: Adapted from National Cooperative Research Program. 1977. Energy effects, efficiencies, and prospects for various modes of transportation. NCHRP Synthesis 43. p. 29.

for accurate data relating to the allocation of gasoline for automobile, truck, and nonhighway use and to estimates of vehicle-miles and auto occupancy values.

Reviewed by Kenneth J. Reed Oak Ridge National Laboratory Oak Ridge, Tennesses

OAK RIDGE NATIONAL LABORATORY'S REPORTS ON GASOLINE DEMAND

In 1978, Oak Ridge National Laboratory (ORNL) published two reports describing the results of an investigation of gasoline use across states: An Investigation of the Variability of Gasoline Consumption among States, ORNL-5391, and Econometric Analysis of the Demand for Gasoline at the State Level, ORNL/TM-6326. Utilizing data on state gasoline sales for highway use from 1966 to 1975, the study first documented the degree of variability of usage from state to state and then attempted to explain the observed variation via an econometric analysis. The models developed in the course of the study are explanatory in nature and were not designed to be used for forecasting gasoline use.

Highway gasoline sales, whether normalized by number of households, number of drivers, or number of vehicles, varied considerably from one state to another (Fig. 1). In terms of gasoline sales per registered vehicles in 1975, Arkansas was highest with 900 gal and Pennsylvania lowest at 589 gal. Gasoline sales per registered vehicle varied less than sales per household or per licensed driver. In short, large geographic differences were found in the amounts of gasoline used by residents of different states.

A two-stage approach was employed in the econometric analysis of the factors influencing gasoline sales per household. In the first phase a national gasoline demand equation was estimated for the time series (1966-1975) of aggregate state data (Hawaii and Alaska were omitted due to lack of data on gasoline prices). Explanatory variables in this equation were vehicle ownership per household, price of regular gasoline, personal disposable income, number of drivers per household, household size, and gasoline-powered trucks as percentage of all gasoline-powered vehicles. This last variable was included in an attempt to account for nonhousehold gasoline use. Given the high percentage of gasoline trucks which are light trucks for predominantly personal transportation, this variable must be considered a very crude measure. State dummy variables were also included in the equation to account for cross-sectional effects not captured by the other variables. These state-specific coefficients, which ranged from +300 to -307 gal/year, capture the average state deviation from consumption levels

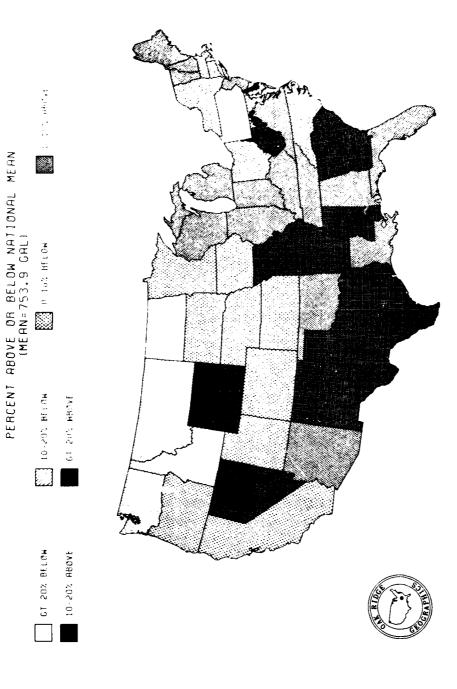


Fig. 1. 1975 gasoline consumption per vehicle. Source: An investigation of the variability of gasoline consumption among states. ORNL-5391. Oak Ridge National Laboratory, Oak Ridge, Tenn. Fig. 2, p. 7.

predicted by the national demand equation for the study period. The national demand equation contained an estimated price elasticity of -0.33 and an income elasticity of 0.31, both within the range of existing estimates.

The results of the elasticity estimates of the national demand equation merely reinforce the findings of earlier studies. The ORNL study differs from earlier analyses in that it actually begins where the others ended. In the second phase of the analysis, the calculated average state deviations from predicted consumption levels were analyzed in an attempt to establish relationships between the deviations and individual state characteristics. The "state effects," as they are called, were regressed against a set of variables describing state spatial structure, physical geography, demographic factors, economic structure, and transportation infrastructure (Fig. 2). This analysis revealed that aggregate state gasoline use decreases with increasing population density, urbanization, agricultural employment, severity of winter weather, and small-car share of the vehicle fleet. Highway gasoline use increases as percentage of the population of working age and annual tourist expenditures per capita increase.

Although ORNL's study makes no policy recommendations, the findings clearly have implications for the regional effects of national transportation energy conservation policies. These findings imply that state consumption rates result from the complex interaction of environmental, economic, and demographic factors rather than from extravagant or frivolous gasoline consumption by the residents of certain states. Thus, one may expect policies such as fuel pricing or rationing to have differing impacts on the states largely due to factors beyond their immediate control.

The ORNL study has broken some new ground in the understanding of geographical patterns of energy use; however, the work leaves several questions unanswered. For example, a better understanding of the way business use of highway gasoline (and diesel fuel as well) varies geographically is clearly needed. Also, available data on state motor vehicle fleet compositions and fuel efficiences were insufficient to test the importance of these factors in determining fuel use. Furthermore, additional investigation of alternative model specifications (such as allowing state-specific URNI DWC 17 20781

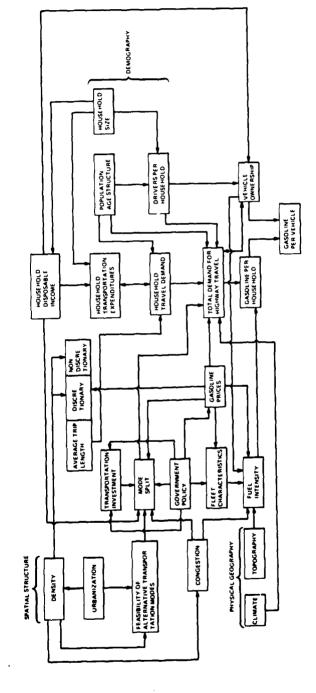


Fig. 2. Gasoline consumption per vehicle at the state level: a conceptual diagram. Source: An investigation of the variability of gasoline consumption among states. ORNL-5391. Oak Ridge National Laboratory, Oak Ridge, Tenn. Fig. 6, p. 20.

price and income elasticities) is needed if a predictive model capable of analyzing the regional impacts of transportation energy conservation policies is to be constructed.

Reviewed by David L. Greene Oak Ridge National Laboratory Oak Ridge, Tennessee

SRI'S REPORT ON DIESEL CARS IN THE UNITED STATES

The SRI report *Diesel Cars in the United States*, 1 published in August 1978, reviews existing data on the status of diesel autos in the United States and discusses prospects for energy savings through increased use of diesels. Experience with diesel cars in the United States is very recent and is limited primarily to luxury cars such as the Mercedes. Diesel sales totaled about 40,000 in 1977; the purchasers were predominantly highly affluent.

Manufacturers hope to devote a substantial fraction of production to diesel autos by 1985 in order to meet fleetwide fuel economy standards. There is, however, some doubt regarding diesels' capability of meeting legislated $NO_{\mathcal{X}}$ emission standards. Evidence shows that a shift to diesels could conserve fuel; however, the savings are not as great as one might expect after reading automobile advertisements. The diesel versions of many cars do get about 50% better mileage, but this estimate does not take into account the substantially reduced horsepower of the diesel; for gas and diesel engines of comparable power, the difference in mileage drops to 25%. Furthermore, because diesel fuel contains more energy per gallon, the report points out that if one also standardizes for fuel input energy, the difference in overall energy efficiency between gas and diesel engines is only about 11%. One compensating factor is that diesel fuel requires less energy to refine; the possible refinery savings are estimated at between 1% and 10%.

Major topics discussed in the SRI report include:

- Status of diesel cars: descriptions of currently available models, their physical characteristics, prices as compared with comparable gasoline models, sales history, and manufacturers' plans for the future.
- 2. Geographical distribution: available data on sales by region for Mercedes and Peugeot (SRI cautions that demand for these autos exceeds supply, and sales patterns reflect corporate allocation procedures more than intrinsic demand; hence, regression analysis is not possible.
- 3. Fuel availability: data on number of diesel service stations by state and on diesel and gasoline prices by city.

- 4. Energy savings: comparison of fuel economy for diesel and gas autos; a refinery model is used to assess savings in refining energy produced by a decrease in the gasoline/diesel output ratio.
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In general, the study is a concise presentation of existing information but it does not answer the crucial question, Will diesels find consumer acceptance?

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> Reviewed by Charles Lave and Kenneth Chomitz University of California, Irvine

SRI'S REPORTS ON RAILROAD PASSENGER AND FREIGHT TRANSPORTATION

SRI has produced two companion studies, Energy Study of Rail Passenger Transportation¹ and Energy Study of Railroad Freight Transportation.² Each study consists of an executive summary volume and three analysis volumes. Overall, the two studies are very well done and represent a sound effort in dealing with a very broad but intricate problem.

Energy Study of Rail Passenger Transportation

Volume 1 of this study is the executive summary. Volume 2, Description of Operating Systems, is largely a technical discussion of existing rail passenger transportation facilities in the United States and of the measures used to describe these facilities. Definitions and descriptions of the modes to be considered are also provided. Because of difficulties in establishing baseline measures, either because of data availability or interpretation, the authors stated that the methods of assessing marginal, indirect, and joint impacts were sketchy in many places. The measures of system average intensity are British thermal units per passenger-mile and passenger-miles per gallon. The authors were thorough in developing measures of passenger service and estimates of energy use and energy intensity. The shortcomings of existing data were mentioned; however, the authors failed to identify what additional data should be collected.

Volume 2 contains a good, though brief, discussion of federal legislation that led to the National Rail Passenger Network (Amtrak). Wide variations in energy intensity across the system are noted; the estimates given lead to interesting conclusions about how to proceed with further development in terms of energy efficiency. The authors pointed out that given the same number of passenger-miles, older equipment is only about 10% less energy efficient than new equipment. However, if new equipment in the northeast rail corridor attracted significantly higher levels of patronage, substantial increases in efficiency would result.

For individual cities (regions) and existing heavy and light rail operations, facilities (track, stations, and equipment) as well as energy use are extensively analyzed. Cities included are Boston, Chicago, Cleveland, New York City and suburbs, Philadelphia, Pittsburgh, San Francisco,

and Washington, D.C. (preliminary). Fare schedules are also provided. In general, this volume is one of the better energy analyses of individual urban rail transit systems.

Volume 3, Institutions, briefly summarizes the institutions involved in rail passenger transportation. The somewhat superficial discussion covers the local, state, and federal agencies dealing with passenger services but does not deal with the interrelationships among those agencies. Also, from the perspective of this subject matter, energy, the study does not describe what role the respective agencies play in choosing modes in development situations.

Energy efficiency, improvements in energy efficiency, and the future of the industry are addressed in Volume 4, Efficiency Improvements and Industry Future. Energy demands are classified into direct, indirect, and capital energy demands. There is a good discussion of the technical methods of conserving energy, such as the use of single-end versus double-end controls on rail commuter vehicles. However, no estimates are made of how much could be saved either in specific cases or in more general situations.

Energy Study of Railroad Freight Transportation

Volume 1 of this study is an executive summary. Volume 2, Industry Description, contains a useful analysis and a good description for the novice in this field. Railroad operations such as train composition, switching and switching yards, and train control are detailed. Railroad costs are statistically analyzed. Using the Interstate Commerce Commission cost accounts and a model developed from the econometrics literature, the authors estimated that the long-run average cost tends to flatten after 500 miles of trackage; thus, efficient levels of operation are available to most Class I railroads. Costs are also estimated using the SRI model, which is labeled the "abstract railroad network." It divides rail operations into mainline rail, way train or branch delivery, switchyards and switching engines, and company costs. This approach tends to be mechanistic and therefore might overlook an item which an industry insider would consider essential to a particular operating plant.

Volume 2 outlines a potentially useful approach to low-density lines and to the abandonment of lines losing money (even on a short-run, marginal cost basis) but contributing to mainline traffic density. The authors stated, "It is possible that abandonment of low-density lines would create traffic losses for the remaining lines of such magnitude that average cost per ton-mile is not reduced or is increased." They concluded that longer trains are more efficient than shorter trains, which raises the question of how much service should be provided with more frequent, shorter trains. This analysis does not balance the effects of rising energy costs with the economic need of the rail industry to compete with other transportation modes through increased service (i.e., shorter trains and more energy consumed). A useful discussion might have included how the industry's competitive position was worsened due to higher energy costs and the tendency to use longer trains.

Volume 3, Regulation and Tariff, is particularly well written. The summary of the regulatory history is concise yet deals more than adequately with the topic. The number of government agencies involved in the modern regulation of the railroads is sizable; these agencies include the Interstate Commerce Commission and state public regulatory agencies, as well as the Federal Railway Administration, the U.S. Environmental Protection Agency, and the Occupational Safety and Health Administration. The range of regulations (i.e., the activities covered) is extensive; this volume briefly summarizes the general categories.

An example of the type of analysis presented is an informative discussion of the tapering rail tariff, general revenue increases, and regulatory exceptions (holddowns) to the general increase. Most of the holddowns occur in the long-distance ranges for specific commodities tariffs, and thus, long-distance shipment becomes increasingly subsidized by other traffic and by the shorter-haul traffic of that specific commodity. This practice, of course, distorts an efficient allocation of resources and clouds the proper locational decision by users of these commodities. One result is that more energy is consumed in the shipment, and this amount is estimated using the long-run average cost model. Also discussed are the effects of regulatory policies on cost and energy consumption and the intricate details of handling empty freight cars, including the cost of moving empty cars and the energy cost of regulations requiring the return of empty cars after use.

Volume 4 is entitled Efficiency Improvements and Industry Future. This volume indicates that the marketability of new technology is low at best, which is probably a very accurate portrayal of the current situation. According to SRI, impedances to adoption of technological advances include a capital-poor industry, low growth prospects, stringent government regulations, and a labor force which is reluctant to learn new skills without wage increases. Efficiency improvements discussed include the use of lighter equipment by eliminating the caboose and turbine locomotives; operational changes, such as reduction of empty-car mileage and reduction of routing circuitry; and equipment efficiency developments, such as flywheels and alternative fuels. The potential of each of these improvements, which appear as a shopping list, is evaluated, and the evaluations generally appear to be accurate. Intermodal cooperation and modal shifts to rail from more energy-intensive forms of transportation will produce additional savings in fuel consumption. At the center of this argument, however, is the issue of railroad service. Service is notoriously poor on some lines, and, as a first step, it must be improved before any of these potential savings will be realized.

Volume 4 concludes with recommendations. New hardware technology is at the top of the list; however, the chances of widespread development and adoption seem so poor that funding in this area may not prove to be costeffective. Improvement in operations and intermodal systems analysis seem to be more likely. The final recommendation is for a relaxation of some regulatory policies; the mood in Washington seems favorable, and additional research in this area may hasten the relaxation process.

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Reviewed by Richard Weissbrod Johns Hopkins University Baltimore, Maryland

TECNET TRANSPORTATION ENERGY USE MODEL

TECNET is a comprehensive transportation forecasting model based on an interindustry input-output model of the economy. Designed to explore the consequences of policy options, TECNET accepts a wide range of transportation-related parameters as input and produces a detailed analysis of the energy consequences of those parameters, featuring breakdowns by mode and urban or rural area. This study uses the TECNET model to explore ten possible future energy scenarios. 1

The importance of TECNET lies in its explicit accounting of indirect energy use in transportation. For example, the model can be used to determine how much energy is consumed in building and maintaining vehicles and facilities and in refining and distributing fuels. The input-output module of TECNET (based on INFORUM) permits the tracing of each industry's ultimate energy contribution to each transportation mode. In 1977, total transportation energy use was 1.42 times greater than direct or operating energy use.

Most important transportation variables of TECNET - mode split, load factor, and vehicle-miles traveled (VMT) per gross national product (GNP) are exogenously specified and independent. This characteristic may be viewed as a severe shortcoming by the proponents of simulation models but as refreshing humility by their critics. In any case, a heavy burden is placed on the TECNET user, who must make his own assumptions about how these variables interact and their future values. In the hands of a knowledgeable analyst, the ability to specify so many major parameters can be a major advantage; however, unreasonable results can be easily generated if the user is not very careful. For example, in analyzing a gas rationing scenario the assumption is made that there is a simple proportional relationship between passenger-miles traveled (PMT) and gasoline consumption (i.e., a 25% decrease in gasoline supply causes a 25% decrease in PMT because auto load factor is assumed to stay constant). Or, as another example, the simple use of the model produces a result in which PMT is dependent on GNP only and is independent of the price of travel.

The base case assumes fleetwide auto mileage of 27.5 mpg by 1985 with no further improvement and continued reliance on internal combustion

engines, increased bus and rail share, slight decreases in energy intensity for all modes, and continuing urbanization. The result is that total energy use (direct and indirect) grows slowly at first, 1.4% annually, as small cars increase their share of the market. After 1985, however, a constant miles-per-gallon value is assumed through the year 2000, giving a 2.2% annual growth of all transportation energy.

The high-conservation scenario differs from the base case in two important respects: (1) industrial adherence to the National Energy Plan, including increased conservation measures and a shift to coal and (2) domination of the auto fleet by nonconventional engines — Brayton, Stirling, and electric. The result is 25% less energy use than in the base case by the year 2000. To isolate the contribution of the alternative engines, an internal combustion engine (ICE) case was run. The ICE scenario is identical to the high-conservation scenario except for its assumption of a 100% ICE auto fleet. This substitution results in 26% higher direct-energy consumption by automobiles than in the high-conservation case, but overall energy use increases by only 3%.

In a further exploration of the merits of non-ICE engines, separate scenarios were run for the *Stivling* and *Brayton* engines. These scenarios share economic and industrial assumptions with the base case, but they assume 100% market penetration of the respective engine types by 2000. Comparison of the two scenarios illustrates TECNET's strong points. Both engines conserve operating energy, but lower weight and smaller reliance on aluminum by the Brayton give it an advantage in indirect energy. In addition, the Brayton scenario indicates substantially less pollution.

A number of sensitivity analyses, all variations of the base case, can be performed. The constant modal share holds modal shares constant but reflects continuing urbanization. The constant urban share holds the urban proportion of the population constant and varies modal share.

The shift scenario is of particular interest because it illustrates the importance of considering indirect energy use. This scenario postulates a 10% decline in urban auto share (to the benefit of rail and bus transit) and 10% declines in auto and air shares of nonurban traffic; these shifts are to occur in the first quarter of the next century. The result is an energy bill higher than in the more auto-oriented base case

because indirect energy requirements per passenger-mile are one-third less for auto than for rail or air. This analysis is somewhat marred by a failure to distinguish between local rural travel and intercity travel; therefore, the model has increased urbanization resulting in decreased air PMT.

The rationing scenario explores the implications of a 25% reduction in gasoline sales to consumers during 1978. Not surprisingly, the economy registers a shift in expenditures from travel to luxuries. Even more surprising is the result, or assumption, that bus, rail, and air PMT will not increase and the counterfactual result that auto PMT falls by 25%.

Finally, the *constant scenario*, or "if this goes on" scenario, leaves modal shares and energy intensity values unchanged from current levels. Energy consumption in 2000 is 32% higher than in the base case.

These results must be interpreted with caution. TECNET is grandiose in scope. The values of most of the principal variables are not accurately ascertainable today, much less 25 or 50 years in the future. The lack of interaction among these variables is a serious flaw, and there is little explicit treatment of supply-and-demand forces. Nevertheless, TECNET appears to be a potentially useful tool for exploring policy options, especially in the short term.

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TRW'S STUDY OF INCREASED DIESEL CAR PRODUCTION

In view of the significant increase in diesel car production in the last two years, TRW has carried out a study¹ for the Office of Policy and Evaluation, U.S. Department of Energy, to examine the following three assumed levels of penetration of diesel cars into the new-car market:

- 1. Continued negligible penetration
- 2. Progressive penetration to 65% of new-car sales in 1995, at different growth rates:
 - a. Linear at 3% increase per year
 - b. Exponentially starting from 0.1% of new-car sales in 1977
- 3. Rapid penetration to 100% of new cars in 1982

Under each set of assumptions, the study estimates the increase in demand for diesel fuel (for automobiles), the resulting implications for refinery operations, and the potential petroleum savings.

As part of the TRW report, existing studies were reviewed. A useful index for measuring the change in the motor fuel mix is the gasoline-to-distillate ratio (G/D) whose current value is approximately 1.6. The findings of several relevant studies are summarized below in terms of this index.

1. Refinery operations

- a. Exxon study: A new refinery in 1990-2000 could achieve as much diesel as gasoline output (G/D = 1.0).
- b. Amoco and Mobil studies: The limit to refinery flexibility would be reached at G/D ratios of 0.6 to 0.7. A larger proportion of diesel (i.e., a lower ratio), if economical, would involve shifts in other product demands or new refining technology.

2. Diesel penetration

- a. Amoco and Mobil studies: If the increased distillate production is all used in diesel cars, a G/D ratio of 0.7 amounts to total motor fuel production consisting of 30% diesel, which is sufficient to sustain 40% of the total U.S. automobile fleet. A reasonable time frame is considered to be 1985 or beyond.
- b. Banner and Moore Associates study: Approximately 60% of the new-car fleet and 50% of the total car fleet in 1995 can be diesels,

with total motor fuel production including approximately 60% diesel fuels.

3. Petroleum savings

a. Mobil and Banner and Moore Associates studies: A maximum petroleum savings of 5% would be achieved when diesel comprises 40% of the total motor fuel output.

Starting from these findings and building on an extensive in-house analysis of baseline transportation demand, the TRW study concludes that, in the near term, sufficient diesel output from refineries is feasible to meet demands even if the number of diesel cars increases rapidly:

- 1. High rate of penetration of diesels "(all new cars in 1982 and beyond being diesels) would require major changes in refining operations by 1983-84, necessitating major planning by 1979 or 1980.
- 2. Intermediate penetration (3% linear increase in 1976 to 65% of new-car sales in 1995) would necessitate the attainment of a G/D ratio of 0.7 in 1985 and 0.6 in 1988.
- 3. Intermediate penetration starting at a low rate (0.1% exponential growth to 65% of new-car sales in 1995) would delay the need for a G/D ratio of 0.7 to 1995, and the limit of 0.6 would not be needed until 2000.

Thus, it appears that in all cases sufficient lead time would be available for refineries to accommodate the demand shifts resulting from significant increases in diesel car sales.

In contrast to these hypothesized situations, U.S. automobile manufacturers were found to anticipate a very slow growth of the diesel car population, with imported diesels expected to comprise less than 5% of the total import fleet by 1985. A potential barrier to rapid penetration of diesel cars is emission control. These control measures include the $NO_{\mathcal{X}}$ standard of 0.4 gpm, if enforced (diesels meet the current $NO_{\mathcal{X}}$ standard of 2.0 gpm), and particulate standards which would probably be introduced if the diesel car population were increased substantially.

The resulting petroleum savings from increased reliance on diesel cars would be small at first, with long-run savings dependent on the over-all fuel economy of new diesels compared with conventional cars on the

road now. The study does not analyze projections of diesel fuel economy except to point out that increased fuel economy over the present level would serve to counteract any barriers to high diesel penetration.

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Reviewed by Margaret Fels Princeton University Princeton, New Jersey

THE WHARTON EFA AUTOMOBILE DEMAND MODEL

The Wharton EFA Automobile Demand Model¹ is probably the most sophisticated model for forecasting long-run automobile demand currently in operation. The model, completed in 1977 for the Department of Transportation, Transportation Systems Center, is distinguished by its attention to detail in its extensive data base and its competent and sometimes innovative econometrics. The authors described their model as providing "long-run policy analysis and forecasting of annual trends for U.S. auto stock, new sales, and their composition by size class." The basic model structure is that of lagged adjustment to "desired" levels of vehicle stock and composition which change in response to changing income, relative prices, and other factors.

With regard to their extensive data base, the authors stated, "It is our belief that the scope and magnitude of this data base is such that its potential usefulness rivals that of the model itself. For instance, we compiled 57 items of information for 2234 domestic cars (1947 to 1974) and 20 items for 982 foreign (1948 to 1975). In addition to this model specific data we compiled aggregate data on new registration and cars in operation, by state for 1969 through 1972, and for the United States for 1948 to 1974." The potential of this extensive resource of automobile data is yet to be tapped by other researchers.

One unique data item constructed by Wharton for this model is a measure of total vehicle operating cost per mile. This measure includes the total stream of costs incurred over the vehicle's lifetime (both of purchase and operation) discounted to present value. This value is, in fact, the total cost of the vehicle to all its owners. Although it is debatable whether consumers actually take all these factors into account in purchase decisions, the variable was found to be a critical one in determining both desired stock and its desired composition by size class in the Wharton equations. The cost per mile includes transportation charges and taxes and new car prices including options, as well as expenditures on fuel, maintenance, and repairs. Unfortunately, it also requires critical assumptions about future miles traveled and discount rates.

The basic structure of the Wharton model is illustrated in Fig. 1. At its heart are modules which predict the total demand for automobile stock and the composition of new car sales by size class. The demand for

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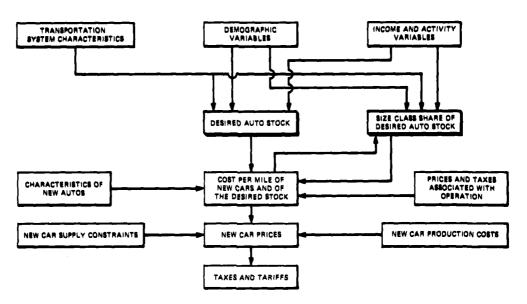


Fig. 1. Basic structure of the Wharton model. Long-run outputs are in boldfaced boxes. Source: Adapted from G. R. Schink and C. J. Loxley. 1977. An analysis of the automobile market: Modeling the long-run determinants of the demand for automobiles, Vol. I. Wharton EFA, Inc., Philadelphia. Chart 3B, p. 3-52.

stock model is an updated version of the familiar stock adjustment model introduced in the 1950s by Chow² and Nerlove.³ The key innovation in the Wharton model is the adaptation of the stock adjustment approach to the modelling of new car sales by size class. First, an equation was developed to forecast the "desired" size class composition of the vehicle fleet as a function of household size, income, the relative capitalized operating costs of the vehicles, public transit use, population age structure, metropolitan population, and regional dummy variables. Unlike typical stock adjustment models in which the "desired" demand equation is never

directly estimated, the authors chose to directly estimate a shares equation by making the heroic assumption that the size class composition of sales from 1972 to 1973 across states represented a long-run equilibrium size class distribution for the entire fleet. This is indeed a heroic assumption because it essentially requires that the existing size class shares in each state match the size class shares of new car sales. This assumption was not tested due to unavailability of data, but it is crucial to the correct application of the stock share adjustment approach. The Wharton model is the first of the several market shares demand models in existence to recognize that the existing distribution of motor vehicles can be adjusted only gradually to conform to changing consumer desires. The actual sales of vehicles by size class are expressed as a function of the gap between the desired and actual shares. This innovation is important because it is probably far easier to adjust the number of vehicles in the fleet than to adjust its composition over a short time.

Another distinctive aspect of the Wharton model is the way in which it estimates fuel efficiencies for vehicle classes. Rather than simply using a sales-weighted average calculated from data for a given year or years and then assumed to hold constant over time, the Wharton model estimates class-miles per gallon as a function of class-average inertial weight, engine displacement, transmission type, and fraction of the class with four or six cylinders. This approach allows the model to forecast future class-average miles per gallon, taking account of future changes in vehicle characteristics. These changes must be specified on the basis of the modeler's judgement. The model cannot directly consider the impact of new technologies. A tricky question which is not addressed is the stability of class market share relationships in the future as class characteristics change.

The Wharton model also contains equations for estimating annual vehicle-miles traveled (VMT) per family unit as a function of the age distribution of the vehicle stock (similar to the Sweeney model⁴), real gasoline cost per mile, real income, and the percentage of family units earning more than \$15,000 per year. The role of this VMT-estimating equation in the model is to predict total travel as an input to the demand for stock and scrappage. In conjunction with assumptions about the relative utilization of cars across size classes, however, the VMT estimate could

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conceivably be combined with mileage estimates to forecast the demand for gasoline. This prediction was not made, and one senses it is largely because of dissatisfaction with the quality of the VMT data and the lack of data on VMT by car class. Finally, the model also contains subsidiary equations for analyzing the used car market in terms of total transactions and prices by class and vintage.

Though the Wharton model makes numerous assumptions, some of which are debatable, its complex specification and estimation, the breadth and depth of factors it considers, and the extensiveness of its data base cannot be matched by competing models. The Wharton model is the Cadillac of automobile-demand forecasting models.

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1977, September SPONSOP: Energy Research and Development Administration, Division of Transportation Theory Conservation of Transportation Retworks: Autonotive Engines; Planning; TECHNOLOGY; DIESEL ENGINES; STIRLING ENGINES; FUEL EFFICIERCY; GOVERNEEMT POLICIES; ALTERNATE FUELS: HANDFACTURERS; COSTS; UTILIZATION, AUTONOTIVE INDUSTRY; PRODUCTION; COMMERCIALIZATION

Cataldo, R.I.
Bational Aeronautics and Space Administration,
Levis Research Center
ADDRESS: Cleveland, OR 44135
TILE: Peaponse of Lead-Acid Batteries to
Chopper-Controlled Discharge: Preliminary
Results

Technical Hemorandum, Report No. COMS/1044-1,
NASA TH-73834, 8 p.
1978, February
FORSON: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
EXTRORDS: LEAD-ACID BATTERIES: SINULATION:
ELECTRIC VEHICLES: VELOCITY: CORTOL:
ELECTRIC DISCHARGES; CAPACITY: DESIGN; ENERGY
Transport AVAILABILITY: NTIS

Mary Southern Profession Control of the Control of

Cook, J.A.; Pucineri, C.A.; Lingscheit, J.N.;
Rahnke, C.J.
Ford Motor Co.
ADDRESS: Dearborn, HI
TITLE: Automotive Gas Turbine Ceramic Regenerator
Design and Reliability Program. Final
Annual Report for Period July 1, 1975 to
September 30, 1976

Report No. COO-2630-18, 299 p.
1976, October
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYMORD: STIRLING ENGINES; HEAT EXCHANGERS;
COSTS; PERFORMANCE; REGENERATORS; GAS TURBINE
ENGINES; DIAGRAMS; GRAPHS (CHARTS); TRELES
(DATA); STRESS ANALYSIS; THEPHODYNAMICS
AVAILABILITY; ETIS

Cyrus, J.D.
Sandia Laboratories
ADDRESS: Albuquerque, NH 87115: Liversore, CA
98550
TITLE: Proceedings of the Hybrid Vehicle Interest
and Capability Assessment Workshop

Report No. SAND 76-0645, confetence held September 22-23, 1976, Albuquerque, New Hexico, 40 p.

1977, Harch
SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation
KEYWORDS: HIBRID ELECTRIC-POWERED WEHICLES;
CONFERENCES; HEAT ENGINES; SYSTEMS ANALYSIS;
SYDRACE; AUTOHOTIVE CONTROL SYSTEMS
AVAILABILITY: HTIS

Davis, D.D.; Renner, R.A.; Younger, P.C.; Epps, R.C.; Lerner, S.S.
Lawrence Livermore Laboratory
ADDRESS: University of California, P.O. Box 808,
Livermore, CA 94550
TITLE: Determination of the Effectiveness and
Feasibility of Regenerative Braking Systems
on Electric and Other Automobiles. Volume I - Summary

Report No. UCRL-52306/1, 74 p.
1977, September 9
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: ELECTRIC VEHICLES: HYBRID
ELECTRIC-POWERED VEHICLES: PEGEMERATIVE
BRAKING; HISTORY: RECOVERT: UTILIZATION;
FLYWHEELS: FOWER TRAIN SISTEMS; DIAGRAMS;
BATTERIES: TABLES (DATA): GRAPHS (CHARTS);
COSTS: FERSIBILITY
AVAILABILITY: WIIS

Davis, D.D.; Renner, R.A.; Tounger, F.C.; Epps, R.C.; Lerner, S.S. Lawrence Liversore Laboratory ADDRESS: University of California, Livermore, CA 94550 94550
TITLE: Determination of the Effectiveness and Feasibility of Regenerative Braking Systems on Electric and Other Automobiles. Volume II: Design Study and Analysis

to Francisco Marie Marie and Committee of the

Report No. UCRL-52306/2, v.p. 1977, September 9

SPONSOE: Energy Research and Development Administration, Division of Transportation Energy Conservation Energy Conservation EXTROPOS: AUTOHORIES; EMEPGY STORAGE; TECHNOLOGY; ELECTRIC VEHICLES; REGEMERATIVE TRANSPORTATION; DEVELOPMENT: TESTING; TRANSPORTATION; COST AMALYSIS; TABLES (DATA); PATTENTS; MYBRID LECTRIC-POWERED VEHICLES; EMEPGY COMSERVATION; BATTERIES

gett, R.H.; Heyer, R.; Heller, H. erna'ional Research and Technology Corp. RESS: 7655 Old Springhouse Fd.; HcLean, VA 22101 TITLE: Ten Scenaios of Transportation Energy Conservation Using TECHET

Report Wo. IRT-17200/2-R, 107 p. 1978, June

1978, June
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Data
Analysis Branch
Effords: POPECASTING: MODELS: TRANSPORTATION;
GASOLINE: RATIONING: EMERGY CONSERVATION;
AUTOHORITHE ENGINES: BRATTON CYCLE: STIRLING
ENGINES: INTERNAL COMBUSTION SEGIES;
ECONOMIC IMPACT: EMERGY INTENSITY: HARKET:
EMERGY COMSUMPTION; AUTOHOBILES: GROWTH;
VEHICLE HILES TRAVELED; GROSS NATIONAL
PRODUCT: MILEAGE: TABLES (DATA)

Donnelly, J.J., Jr.: Poessler, W.U.
A-rospace Corp., Environment and Energy
Conservation Division, Hobile Systems Group,
Office of Energy Conservation
TITLE: Fuel Consumption and Engine Horsepower
Projections for the Highway Transportation
Sector

79 p.
1978, April 28
SPONSOR: U.S. Lept. of Energy, Division of
Transportation Energy Conservation, Office of
Highway Systems, Heat Engine Systems Braich
KEYWORDS: FUEL COMSUMPTION: HIGHWAY
TRANSPORTATION: AUTOHOBILES: TRUCKS: BUSES
(VERICLES): MOTORCYCLES: HILEAGE: ENGINES:
SALES: FORECASTING: WEIGHT: CLASSIFICATIONS:
TABLES (DATA); SIZE: FUEL ECONOMY

Pustin, H.O.; Denington, R.J. Fational Aeronautics and Space Administration, Levis Pessarch Center ADDRESS: Cleveland, OH 44135 TITLE: "est and Evaluation of 23 Electric vehicles for State-of-the-Art Assessment

Report Wo. COMS/1011-21, MASA TH-73850, paper presented at the 1978 SAE Congress, Detroit, Michigan, February 27 - March 3, 1978, 24 p.

SPENSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation Reywords: Electric vericles; Testivg; Hybrid Electric vericles; Testivg; Hybrid Electric-Powered vericles; Regenerative SPARING; EMERGE CONSUMPTION; TABLES (DATA); GRAPHS (CHARTS); FUEL CONSUMPTION; PERFORMANCE

Exton Research and Engineering Co., Government Research Laboratories; Science Application Inc., Combustion and Propulsion Technology Division ADDRESS: EPSE, P.O. Box 8, Linden, MJ 07036;

SAI,20335 Ventura Boulevard, Suite 423, Woodland Hills, CA 91364 TITLE: Fundamental Characterization of Alternate Fuel Effects in Continuous Combustion Systems

Report Enterts in Continuous Considerion System
No. 1, v.p.
1978, January 11
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ALTERNATE PUELS; COMBUSTION; CREMICAL
PROPERTIES; HODELS; COMBUSTION PROPERTIES;
HODFLS; GAS TURBINE ENGINES; HYDROGEN;
MITROGEN; THERMODINABIC PROPERTIES; TRUBULEN
FLOW: DROPLETS; SPRAYS; DECOMPOSITION;
OXIDATION; GRAPHS (CHARTS)
AVAILABILITY; MIS

Foster, R.W.
Hiami, University of, Ryder Program in
Transportation; Escher Technology Associates
ADDRESS: UM, Coral Gables, FL 33124; ETA, St
John's, HI TITLE: Alternative Fuels and Intercity Trucking

Report Wo. HCP/H3294-01, 302 p.
1978, June
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ALTERNATE FUELS; TRUCKS; INTERCITY
TRANSPORTATION; TECHNOLOGY ASSESSMENT; EMERGY
COMSERVATION; DIESEL BUGINES; TRACTORS;
INTERNAL COMBUSTION EMGINES; FOEL
COMSUMPTION; HIGHWAY TRANSPORTATION;
OWNERSHIP; EMFTY BACKHAUL; EMPRGY RESOURCES;
COMMERCIALIZATION; DESIGN; DEMONSTRATION;
TABLES (DATA): DIAGRAMS TABLES (DATA); DIAGRAMS AVAILABILITY; ETIS

Poster, R.W.; Escher, W.J.D. Escher Technology Associates ADDRESS: St. Johns, H. TITLE: Hydrogen-Fueled Railroad Hotive Power Systems, A Feasibility Study

Report No. CONS/4707-1, ETA-PR-70, 250
1976, September
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
REYMORDS: HYDROGEN FULLS; RAIL TRANSPORTATION;
ALPERATE FUELS; FRASIBILITY; LOCOMOTIVES;
DIESEL ENGINES; INTERNAL COMBUSTION ENGINES;
HODIFICATIONS; PERFORMANCE; PHOTOGRAPHS;
TABLES (DATA); GRAPHS (CHAPTS)
AVAILABILITY: HTTS

Goen, R.L.; Ivary, M.E.
SRI International, Center for Resource and
Environmental Systems, Chemicals and
Resources Group
ADDRESS: Henlo wark, CR 94025
FITLE: Diesel Cars in the United States

72 p.
1978, August
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: NOTOR VERICLES; DIESEL ENGINES; TRUCKS;
AUTOMOTIVE ENISSIONS; STANDARDS; DIESEL
FUELS: HARKETING; FUEL ECONOMY; COSTS;
HANDFACTURERS; TECHNOLOGY; GASOLINE; SURVEYS;
CONSUMERS; TABLES (DATA); ELECTRIC VEHICLES;
PRODUCTION; SALES; AUTOMOBILES

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Greene, D.I.; C'Connor, T.P.
Oak Ridge National Laboratory, Energy Division,
Regional and Orban Studies Section
ADDRESS: Oak Ridge, TN 37830
TITLE: An Investigation of the Variability of
Gasoline Consumption Among States

Report No. ORNL-5391, 61 p.
1978, April
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197809: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Data
Analysis Stanch
METEORDS: DETERMINATS: GASOLINE: FUEL
CONSUBSTION: HODELS: STATE ANALYSIS:
SOCIO-ECOBORIC FACTORS: AGE GROUPS:
HHICOTHENT: TOWNISH: VEHICLE RILES TRAVELED:
VEHICLE REGISTRATIONS: AUTOHOBILES:
CMFERSHIP: AUTOHOBILE DRIVERS: EMERGY DEHAMD:
COMPARATIVE EVALUATIONS
AVAILABILITY: MTIS

Greene, D.L.; C'Connor, T.P.; Patterson, P.D.; Bose, A.B.; Shonka, D.B. Oak Bidge Haticnel Laboratory, Energy Division, Regional and Orban Studies Section ADDESS: Oak Ridge, TH 37830 TITLE: Regional Transportation Energy Conservation Data Book. Edition 1

Report Fo. ORFL-5435 Special, 530 p.
1978, September
1978, September 1978, Sep

Gulf Pescarch and Development Co.
ADDRESS: Pittsburgh, PA
TITLE: Passenger Car Fuel Economy in Short Trip
Operation: Alternative Fuels Utilization
Program

Peport No. HCP/W4248, v.p.
1978, July
SPOSSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
RETWORDS: VEHICLE TRIPS; DISTANCE; AUTOHOBILES;
FURL SCOUGHT: GASOLINE: FUEL ADDITIVES;
TESTING: DEVINE CYCLE; DYNAMBETERS; OCTABE;
SPASORAL VARIATIONS; AUTOHOTIVE EMISSIONS
AVAILABILITY; GPO, Stock No. 061-000-00112-3

Basilton, W.
General Research Corp.
ADDITIS: Santa Barbara, CA 93105
TITLE: Electric Car Technology for Demonstration
and Development

Paper presented at the Fourth Mational Conference on the "Effects of Energy Constraints on Transportation Systems," held at Union College, Schenectady, New York, on August 1-5, 1977, 26 p.

1977 SPORSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation
KEYWORDS: ELECTRIC VEHICLES: TECHNOLOGY;
DEHONSTRATION; DEVELOPMENT: MICKEL-ZINC
BATTERIES; BATTERIES; LITHIUM-ALUMINUM-METAL
SULFIDE BATTERIES; LEAD-ACID BATTERIES;
PERFORMANCE; GRAPHS (CHARTS); EMERGY
COMSUMPTIOM

Hamilton, W. General Research Corp. ADDRESS: Santa Barbara, CA 93105 TITLE: Urban Applications and Energy Impacts of Puture Electric Cars

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SPONSOR: Energy Research and Development
Administration, Division of Transportation
Emergy Conservation
EEPORDS: URBAN TRANSPORTATION: PORECASTING:
ELECTRIC VEHICLES: AIR POLLUTION; NOISE
POLLUTION; BEERGY CONSUMPTION: PETROLEUM;
LIFE-CYCLE COST; LOS ANGELES: PHILADELPHIA;
SAINT LOUIS (MISSOUR)

Heck, R.H.; Chang, H.; Hess, H.; Carrubba, R. Engelhard Industries, a Division of Engelhard Hinerals 5 Chesicals Corp. ADDRESS: Henlo Park, Edison, BJ 08617 TITLE: Durability Testing at One Atmosphere of Advanced Catalysts and Catalyst Supports for Automotive Gas Turbine Engine Combustors.

Final Report, Report Bo. CONS/9846-1, WASA CR-135132, 223 p.
1977, June
SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation KEYWORDS: TRSTING; CATALYSTS; AUTOHOBILES; GAS TURBINE BUGINES; COMBUSTORS; PERFORMANCE; ENISSIONS; PROPANE; DIESEL FUELS; AUTOHOTIVE ENISSIONS; ILFE (DURABILITY); TABLES (DATA); GRAPHS (CHARTS)
AVAILABILITY: WITS

Hill, S.H.
Teledyne Continental Hotors, General Products
Division
ADDRESS: 76 Getty Street, Huskegon, HI 49442
TITLE: Automotive Diesel Technology Program:
Final Report, Period June 1975-April 1977

Report No. SAN/1099-1, 122 p.
1977, August
SPONSON: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYNORDS: AUTOHOBILES: DIESEL FRGINES:
TECHNOLOGY: RESEARCH PROGRAMS: FUEL ECONOMY:
DESIGN: AUTONOTIVE ENISSIONS: SIMULATION;
EXHAUST RECIRCULATION SISTEMS
AVAILABILITY: GPO

Hittman Associates Inc.
ADDRESS: Columbia, HD 21045
TITLE: Evaluation Hethodology for Hear Ters
Devices and Strategies to Reduce Highway
Vehicle Use. Volume I: Technical Report.
Volume II: Appendices

Report No. HIT-695, v.p.

1977, August

SPONSOR: Energy Remearch and Development
Administration, Division of Transportation
Energy Conservation
Energy Conservation;
ENERGY TRANSPORTATION; EMPEGY
CONSERVATION; EPFICIENCY; FOEL ECOMONY;
FEASIBILITY; BETROPITTIES; COMPARATIVE
EVALUATIONS; TRUCKS; AUTOHOBILES; HARKET;
PASSENGER TRANSPORTATION; CARGO
TRANSPORTATION; BUSES (VERICLES); HODELS;
HOBELITY; EMPTROMMENTAL IMPACT; ECOMONICS;
GRAPHS (CHARTS); EQUIPMENT; GOVERNHENT
POLICIES; RETROFIT DEVICES

ioward, E.B.; Barber, B.Y.; Jordan, A.C.; Seaborn, C.C. Dak Fidge Mational Laboratory, Information Day Finge Mational Laboratory, information Division, Information Center Complex, Energy Information Center ADDRESS: Oak Ridge, TH 37830 TITLE: "Tensportation Energy Conservation Data Book: A Selected, Annotated Bibliography.

*eport No. OFML/EIS-114 (Part II of ORML-5320),

POPOT NO. OPBL/EIS-118 (Part II of ORBL-5320),
272 b.
1977, October
SPOWSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
REWORDS: BIELIOGRAPHIES; TRANSPORTATION; EMERGY
COMSERVATION; ATT TRANSPORTATION; ALTERNATE
FUELS; AUTOMOBILES; BOSES (WENICLES); CARGO
TRANSPORTATION; ATT TRANSPORTATION; ALTERNATE
(ECOMONICS); DIESEL BEGIES; ECOMONICS;
EFFICIENCY; ELECTRIC VENICLES; EMERGY
COMSUMPTION; EMPIROMENTAL INPACT;
FORFCASTING; TUEL COMSUMPTION; FUEL ECOMONY;
FUELS; GASOLINE; GOVERNAERT POLICIES;
LEGISLATION; HASS TRANSPORTATION; RAIL
TRANSPORTATION; STATISTICS; TRUCKS; UBBAN
TRANSPORTATION; HIGHAY TRANSPORTATION;
VENICLES; WATER TRANSPORTATION; ABSTRACTS
AVAILABILITY; ETIS

Jelavich, H.S.
Faucett (Jack) Associates Inc.
ADDRISS: 5858 Eleconsin Avenue, Suite 1150, Chevy
Chase, HL 20015
TITLE: A Study of the Determinants of Freight
Hodal Choice

Conference paper presented at Transportation Research Board Heeting Session Number 143, January 19, 1978, 21 p.

1978
PORSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
RETWORDS: CARGO TRANSPORTATION; DECISIONS;
ENEGET: IMPUT-OUTPUT ANALYSIS: COMMODITIES;
PORECASTING: HODELS: RATES (COSTS); DISTANCE;

Relier, J.L.; Bakaguchi, G.H.; Hare, J.C. Union Oil Co. of California, Research Dept. ADDRESS: Brea, CA "ITLE: Hethanol Fuel Hodification for Highway Wehicle Use. Final Report

Peport No. RCP/W3683-18, v.p.
1978, July
SPOUSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
RETURNS: HETRANOL: ALTERNATE FUELS: ALCOHOL
FUELS: ENGINES: MODIFICATIONS: GASOLINE:
PROPERTIES: VERICLES: UTILISATION:
PESPORRANCE: ENVIRONMENTAL IMPACT:

TRANSPORTATION; WATER; TESTING; TABLES (DATA); TOXICITY; SAFETY AVAILABILITY: WTIS

Kirk, R.S.; Barber, K.P. Hueller Associates Inc. TITLE: A Pictorial Characterization of Worldwide Electric and Hybrid Vehicles

Report No. COMS-770373, presented during the Harch 1, 1977, conference on EPDA's Electric and Hybrid Vehicle Desonstration Project, 264 August 16

REWORDS: PHOTOGRAPHS; ELECTRIC VEHICLES; HYBRID
ELECTRIC-POBERED VEHICLES; GEPRAN FEDERAL
REPUBLIC; ISRAEL; METHERLANDS; SWEDEN; UNITED
KINGDOM; FRANCE; ITALY; JAPAN; USA;
HAMUPACTURERS; HARKET; RESPARCH; DESIGN;
INTERNATIONAL ANALYSIS
ÀVAILABILITY: GPO, Stock No. 060-000-00083-2

Leising, C.J.; Purohit, G.P.; DeGrey, S.P.; Finegold, J.G. National Aeronautics and Space Administration, Jet Propulsion Laboratory ADDRESS: California Institute of Technology, Pasadena, CA LP: Utilization of Waste Heat in Trucks for Increased Fuel Economy. Final Report

Report No. HCP/H1011-02, 30 p.
1978, June
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
REYWORDS: WASTE HEAT; FUEL ECONOMY; UTILIZATION;
TRUCRS; DIESEL EMGIMES; SPARK IGBITIOW
ENGINES; GAS TURBINE ENGINES; SPARKING
ENGINES; RANKINE CYCLE ENGINES; REGENERATION;
DRIVING CYCLE; ADIABATIC PROCESSES;
RECUPERATION; TURBOCHARGING;
TURBOCOMPOUNDING; GRAPHS (CHAPTS); TABLES
(DATA); DIAGRAMS (DATA); DIRGRAMS AVAILABILITY: GPO, Stock No. 061-000-00111-5

Lindsey-Kaufman Co ADDRESS: 53 Hamilton Place, Tenafly, NJ 07670 TITLE: Projection of Light Truck Population to Year 2025

Report No. ORML/Sub-78/14285/1, Special, 64 p. Report Mo. ORNE/Sub-78/14/285/1, Special, 6a p. 1978, October
SPONSOR: Oak Ridge Wational Laboratory, Energy Division, Regional and Urban Studies Section; U.S. Dept. of Energy, Division of Transportation Energy Conservation REFUNCES: THENDROSES: THE TRANSPORTATION; OWNERSHIP; GROWTH; HIGHWAY TRANSPORTATION; UTILIZATION; UTILIZATION; UTILIZATION; VANS SOCIO-ECOMONIC PACTORS; VANS AVAILABILITY; ETIS

LHC Corp.
ADDRESS: 476 Dunn Circle, Sparks, NV 89431
TITLE: Evaluation of Selected Drive Components
for a Plywheel Powered Commuter Vehicle.
Final Report. Phase I

Report No. SAM/1164-1, LRC-770401-B, v.p. 1977, June 30 SPONSOR: Energy Research and Development

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Section of the sectio

Administration, San Francisco Operations office; U.S. Dept. of Paergy, Division of Transportation Energy Conservation MPPS: PLYMEELS; PMEMGY STOBAGE; DIAGRAMS; GPAPHS (CMAPTS); ELECTRIC VEHICLES; TESTING; HODRIS: NOTORS; BEARINGS; SHAPTS; SEALS VIABLIAND, MATE. AVAILABILITY: MTIS

Harcus, A.
Hechanical Technology Inc.
ADDRTS: 969 Albany-Shaker Road, Lathar, NY
TITIZ: An Advanced Electric Motor Transmission
for Plactric Vehicles: Development Plan. Technical Report

Report Ro. C00/2835-3, v.p. 1977, November 1977, Bove Bher SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation TETHORDS: TECHNOLOGY ASSESSMENT; EPFICIENCY; DESIGN: FARRICATION; ELECTRIC VEHICLES; MODELS; TABLES (DATA); TRANSPORTATION; GRAPHS (CHAPTS); TESTING AVAILABILITY: NTIS

Harcus, A.: Pinkus, O.
Hechanical Technology Inc.
ADDESS: Latham, ET
TITLE: Characterization Study of an Electric
Hotor-Transmission System for Electric
Yehicles: Technical Report

Report No. C00/2835-2, v.p. Report No. COO/2835-2, v.p.
1977, September
1977, September
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
RYTHOPDS: EleCTRIC VEHICLES; PERFORMANCE; DESIGN;
BATTEPIES; TECHNOLOGY; TESTING;
SPECIFICATIONS; FLECTRIC HOTORS; EPPICIENCY;
ANTOHOTIVE ENGINEERING; COST ESTIMATES;
GPAPHS (CHARTS); TABLES (DATA) AVAILABILITY: NTIS

Martini, W.P.
Washington, University of, Joint Center for Graduate Study ADDRESS: 100 Sprout Rd., Richland, WA 99352 TITLE: Stirling Engine Design Manual

Final Peport, Report No. DOE/NASA/3152-78/1, WASA CR-135382, 370 p.
1978, April
SPOMSOR: U.S. Cept. of Energy, Division of Transportation Energy Conservation; National Aeronautics and Space Administration, Lewis Research Center
KETWORDS: STIRLING ENGINES: DESIGN; NAMUALS; RIBLIOGRAPHIES: PERFORMANCE: OPTIMIZATION; SIMULATION; HODELS; DIAGRAMS; RESEARCH AVAILABILITY: NTIS

Holean, A.F.; Baker, R.R. Ford Motor Co. ADDrESS: Dearborn, HI 48121 TITE: Brittle Haterials Design, High Temperature Gas Turbine. Volume 2: Ceramic Turbine Rotar Technology

Report Bo. ABBRC TR 78-14, DA-OD 4733, 12th In*eris Report for the Period January -September 1977, 93 p. 1978, Harch SPONSOR: U.S. Eapt. of Defense, Army Materials and Rechanics Research Center; U.S. Dept. of

Energy, Division of Transportation Energy ENERGY, DYSENSION OF TRANSPORTATION ENERGY
CONSERVATION: DESIGN; GAS TURBINES;
CERANICS; ROTORS; TECHNOLOGY; RIGH
TEMPERATURE; BRITTLENESS; PABRICATION;
SILICON BITRIDES; TESTING; COMPUTER PROGRAMS;
TABLES (DATA); GAS TORBINE ENGINES; SILICON
CARBIDES; HECHANICAL PROPERTIES; PROTOGRAPHS;
DIAGRAMS DIAGRAMS AVAILABILITY: NTIS

Hechanical Technology Inc., R&D Division TITLE: Characterization Study of an Electric Hotor-Transmission System for Electric

Report No. HCP/H2835-01, v.p.
1978, Harch
SPOISOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KETWORDS: ELECTRIC VEHICLES; PERFORMANCE; DESIGN;
AUTOHOBILE TRANSMISSIONS; TABLES (DATA);
GRAPHS (CHARTS)
AVAILABILITY: MIS

Mighdoll, P.; Hahn, W.P. Boor, Allen & Hamilton Inc., Design and Dewelopment Division ADDRESS: Cleveland, OR 84131 TITLE: Preliminary Power Train Design for a State-of-the-Art Electric Vehicle

Report No. DOE/WASA/0595-78/1, WASA CP-13541, 140 P.
1978, April
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Electric
and Hybrid Vehicle Systems Program: Mational
Aeronautics and Space Administration, Lewis
Research Center
KETHORDS: POWER TRAIN SYSTEMS: ELECTRIC VEHICLES; TECHNOLOGY ASSESSMENT; HOTORS: AUTOHOBILE TRANSHISSIONS; HODELS: DESIGN: COMPUTERIZED SIGULATION: DIAGRAMS; TABLES (DATA)
AVAILABILITY: NTIS

Hittal, R.K. (ed.) Umion College ADDRESS: Schenectady, NY 12308 TITLE: Third Hational Conference on the Effects of Energy Constraints on Transportation Systems

Proceedings of a conference held at Union College, Schenectady, New York, August 2-6, 1976, 408 p. 1977, Hay
SPON SOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYMORDS: TRANSPORTATION SYSTEMS; EMERGY
CONSUMPTION: EMERGY COMSERVATION: URBAN
TRANSPORTATION: BAY AREA RAPID TRANSIT
SYSTEM: CARGO TRANSPORTATION; RAIL
TRANSPORTATION: PASSENGER TRANSPORTATION;
REGULATIONS; CARPOOLING: TRUCKS; FUEL
ECOMONY; IMTERCITY TRANSPORTATION; RAPID
TRANSIT SYSTEMS; AIR TRANSPORTATION; TABLES
(DATA); COMPERENCES; COMPUTENIZED SYMULATION
AVAILABILITY: GPO, Stock No. 060-000-00073-5 1977, Hay

Hueller Associates Inc. ADDRESS: Baltisore, HD TITLE: Status of Alcohol Fuels Utilization

A STATE OF THE PARTY OF THE PAR

· Tradition butter in the

Technology for Highway Transportation

Peport No. HCP/H2923-01, 132 p.
1978, June
5PCMSOF; U.S. Eept. of Energy, Division of
Transportation Fnergy Conservation
KETWOPDS: ALTERNATE FUELS; UTLLIZATION; ALCOHOL
FUELS; HIGHWAT TRANSPORTATION; HETHANOL;
FTHNOL; TESTING; ENGINES; ENISSIONS;
P*PFORMANCE; FUEL ECONOMY; FUEL CONSUMPTION;
COMPARATIVE EVALUATIONS; PROPERTIES; COSTS;
G*APRS (CRAPTS); WATER
AVAILABILITY; HTIS

Nueller Associates Inc. ADDRESS: Beltimore, ND TITLE: Denaturants for Ethanol/Gasoline Blands

Peport No. RCP/M2C98-01, 16 p.
SPOUSOR: U.S. Tept. of Energy, Division of
Transportation Energy Conservation
KYMORDS: ETRANOL: GASOLINE: ALTERNATE FUELS;
DEMATURANTS

Wational Aeronautics and Space Administration, Lewis Research Center ADDRESS: Cleveland, OH 44135 TITLE: State-Of-The-Art Assessment of Electric and Hybrid vehicles

Peport No. HCP/H1011-01, v.p.
1978, January
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYMOPDS: ELECTRIC VEHICLES: HYBRID
ELECTRIC-OPERED VEHICLES: GOLIPHENT:
TESTING: TABLES (DATA): BATTERIES: SURVEYS;
PEPFORMANCE: ELECTRIC VEHICLE RANGE: ENERGY
CONSUMPTION: PELIABILITY
AVAILABILITY: NTIS

National Aeronautics and Space Administration, Lewis Pessarch Center ADDESS: Cleveland, OH "TILE: Twelve State-of-the-Art Individual Plactric and Hybrid Vehicle Test Reports. Volume I

Report No. HCP/H1011-03/1, v.p.
1978, July
SPCMSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KFY00RDS: ELECTRIC VERICLES; HT9RID
ELECTRIC-POWBRED VERICLES; ESSING; DRIVING
CYCLE; EMERGI COMSUMPTION; PERFORMANCE;
CESIGN; EATTERIES; TABLES (DATA); GRAPHS
(CMPTS); RAMOFACTUREPS
AVAILABILITY; NTIS

Worth Atlantic Treaty Organization, Committee on the Challenges of Modern Society TITLE: Proceedings of the Fourth International Swapposius on Automotive Propulsion Systems. Volumes I and II

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ELECTRIC-POWERED VEHICLES; STRATIFIED CHAPGE ENGINES; SPARK IGNITION ENGINES; AUTOHOTIVE ENISSIOMS; POWEP TRAIN SYSTEMS AVAILABILITY: NTIS (When available) The second second

Paul, F.W.: Negreanw, M.J.
Carnegie-Mellon University, Mechanical
Engineering Dept.
ADDRESS: Pittsburgh, PA
TITLE: Applied Studies in Advanced Boiler
Technology for Fankine Cycle Power Systems

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1978, February
5PONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: BOILERS; PANKINE CYCLE POWER SYSTEMS;
DESIGN: COMPARATIVE EVALUATIONS; TESTING;
VAPOR GENERATORS; HODELS; SIMULATION; DIAGRAMS
AVAILABILITY: NTIS

Pefley, R.K.; Browning, L.H.; HcCormack, H.C.; Kornberger, H.L.; Likos, W.F.; Pullman, B. Santa Clara University, Dept. of Mechanical Engineering ADDRISS: Santa Clara, CA 95053 TITLE: Characterization and Research Investigation of Methanol and Methyl Fuels

Report No. COO-1258-1, H.E. 77-1, 108 p.
1977, August
SPONSOR: U.S. Environmental Protection Agency,
Hotor Vehicle Emission Laboratory; Energy
Research and Development Administration,
Division of Transportation Energy Conservation
RETYGENS: ALTEPHATE FUELS; HETHANDL; COMPARATIVE
EVALUATIONS; EMISSIONS; EFFICIENCY; FUEL
ECONOMY; GASOLINE; PERPORANCE; COMPUTERIZED
SIMULATION; GRAPHS (CHARTS); TABLES (DATA);
TESTING
AVAILABILITY: NTIS

Phoebe, C.H.
Gulf Research and Development Co.
ADDRESS: Pittsburgh, PA 15230
TITLE: Passenger Car Fuel Roonomy in Short Trip
Operation. Technical Progress Report for
Period Ray 1, 1977 - November 30, 1977

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1977, November
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYHORDS: FDEL ECONOMY: GASOLINE: HYDROGEN;
HETHANOL: FUEL INJECTION SYSTEMS; STIRLING
ENGINES: GAS ENGINES; AUTOHOBILES;
COMPARATIVE EVALUATIONS: DPIVING CYCLE;
HIGHMAY TRANSPORTATION: ENERGY STORAGE;
VEHICLE TRIPS: TESTING; FUEL CONSUMPTION;
VEHICLE MILES TRAVELED; PHOTOGRAPHS;
AUTOHOBILE OCCUPANCY
AVAILABILITY: NTIS

Pouliot, H.N.: Robinson, C.W.: Delameter, W.R. Sandia Laboratories ADDRISS: Livermore, CA TITLE: A Variable-Displacement Spark-Ignition Engine

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DISPLACEMENT ENGINES: EXHAUST RECIRCULATION STSTPHS; AUTOMOTIVE BHISSIONS; PUEL ECONOMY; PEASYNETHENT; TESTING; DRIVING CYCLE; OPBAN "PANSPORTATION; HECHANICS; GRAPHS (CHAPTS); DIAGRAMS; HYDPOCARBONS; NITROGEN OXIDES AVAILABILITY; GPO, Stock No. 061-000-00108-5

Purdue University, Institute for Interdisciplinary Engineering Studies ADDRESS: West lafayette, IN TITLE: Coportunity and Pisk Assessment of the Electric and Hybrid Vehicle Research, Nevelopment and Demonstration Act of 1976

Peport No. HCP/M4250-01 (Previously issued as COO-4250-1), 327 p. COO-4250-11, 327 p.
1978, January
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
RYMODE: ELECTRIC PHRICLES: HISRID
ELECTRIC-POWEREN VEHICLES: COMPERCIALIZATION;
FWFFFF DENAND; COSTS; PEFFORMANCE: TABLES
(MATA): ELECTRIC VEHICLE PARGE;
TPANSPOPTATION: PETROLEUM: ENERGY
COMSTPANTOM: TECHNOLOGY ASSESSMENT:
INSTITUTIONAL FACTORS; SAFETY
RVAILREILITY: BTIS

Reilly, J.J.: Wiswall, R.H.: Waide, C.H.
Brookhaven Mational laboratory, Dept. of Applied
Science
ADTRISS: Tpton, NY 11973
"ITLE: Motor Vehicle Storage of Hydrogen Using
Metal Hydrides. Final Report

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SPONSOF: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
RETWORDS: HYDROGEN; HYDROGEN STORAGE; HYDRIDES;
AUTOHOBILES: HAGRESIOH HYDRIDES; ALUNINUM
HYDRIDES: DESIGN; STABILITY; COMPARATIVE
EVALUATIONS: TABLES (DATA); DIAGRAMS;
ALTERNATE FUELS
AVAILABILITY: HTIS

Roelke, R.J.: HcLallin, K.L.
Sational Aeronautics and Space Administration,
Levis Research Center
ADDREMS: Cleveland, OH 48135
FITLE: Cold-Air Performance of the
Compressor-Drive Turbine of the Department of
Finergy Baseline Automobile Gas-Turbine Engine

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1978, July
5PONSOR: U.S. Lept. of Energy, Division of
Transportation Energy Conservation
REYMORDS: GAS TURBINE ENGINES: PERFORMANCE: US
DOE: AUTOMOBILES: ASRODYMANICS: VELOCITI;
TPSTING: ENGINES: EFFICIENCY: EQUIPMENT:
HPSTREMENT: PRESSURE HEASUREMENT: GRAPHS
(CMARTS): DIAGRAMS; TEMPERATURE: TORQUE
AVAILABILITY: ETIS

Pohv, C.A.: Hachman, J.P.: Duffy, T.E. International Harvester Co., Solar Division ADDRTS: 2200 Pacific Highway, San Diego, CA 92138 TITLE: Rutomotive Storage of Hydrogen Using Modified Hagnesium Hydrides

Report No. TEC-75/002, 55 p.
1975, July
SPONSOR: U.S. Environmental Protection Agency,
Office of Air and Haste Hanagement, Office of
Hobile Source Air Pollution Control,
Alternative Automotive Power Systems
Division; Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYHORDS: HTDROGEN; AUTOHOBILPS; HAGNESIUM
HTDRIDES; ENERGY STORAGE; ALTERNATE FUELS;
HAGNESIUM ALLOYS; RESEARCH; HYDRIDES;
REFUELING; TABLES (DATA); GRAPHS (CHARTS);
HTDROGEN STORAGE Report No. TEC-75/002, 55 p. HYDROGEN STORAGE AVAILABILITY: NTIS

Rosenberg, M.; Bufferd, A.; Coonley, P.;
Hamilton, W.; Kaiser, P.; Raber, F.T.
U.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Kendall Square, Cambridge, HA 02142
TITLE: Institutional Factors in Transportation
Systems and Their Potential for Bias Toward
Wehicles of Particular Characteristics

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1978, Pebruary
SPONSOP: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYNORDS: HIBBID ELECTRIC-POWERED VEHICLES;
INSTITUTIONAL PACTORS; LEGISLATION; TAKES;
REGULATIONS; ELECTRIC VEHICLES: TRAFFIC
COMMUNICATIONS OF THE PROPERTY OF THE CONTROL: GOVERNMENT POLICIPS: AUTOMOTIVE INDUSTRY: ELECTRIC POWER: BATTERY CHARGING; VEHICLE PARKING: TABLES (DATA): REGIONAL AWALYSIS; PRICES: RATES (COSTS): PETROLEUM; URBAN AREAS AVAILABILITY: NTIS

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1978, April
5708, April
Transportation Energy Conservation, Electric
and Hybrid Vehicle Systems Program: National
Aeronautics and Space Administration, Levis
Research Center
KETWORD: ELECTRIC VEHICLES; DESIGN; POWER TRAIN
SISTEMS; PERFORMANCE; ELECTRIC VEHICLE RANGE;
DRIVING CYCLE; EFFICIENCY; AUTOMOTIVE
ENGINEERING; TESTING; SIMULATION
AVAILABILITY; NTIS

Rowlett, B.H.: Hurry, R. Airesearch Hanufacturing Co. ADDRESS: Torrance, CA TITLE: Hear-Ters Electric Vehicle Program: Phase 1, Final Report

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1977, August
SPONSOF: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
RETURBS: ELECTRIC VEHICLES; DESIGN; PERPORMANCE; RETURNOS: ELECTRIC VEHICLES; DESIGN; PERFORMANC SAPETY; BATTERIES; TABLES (DATA); GRAPHS (CHARTS); DIAGRAMS; ENERGY STORAGE; ECONOMICS; COSTS; DEVELOPMENT; RODELS; SIMULATION; LIPE-CYCLE COST; TRANSPORTATION AVAILABILITY: NTIS

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Ruscitto, D.: HcCornick, J.: Gray, S.
Hechanical Technology Inc.
ADDRESS: Latham, FT 12110
TITLE: Hydrodynamic Air Lubricated Compliant
Surface Bearing for an Automotive Gas Turbine
Fingine. I - Journal Bearing Performance

Report No. CONS/9827-1, WASA-CR-135368, 108 p.
1970, April
SPONSOR: U.S. Lept. of Energy, Division of
Transportation Energy Conservation; Mational
Acronautics and Space Administration
RETROPOS: TESTING: AUTOROTIVE REGIVES; GAS
TUPBINE REGIVES; STARTING: DESIGN;
PERFORMANCE; TEMPERATUPE
AVAILABILITY: HTIS

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Report No. COO-2789-18, 261 p.
1977, April 30
SPONSOR: Energy Research and Development
Alministration, Division of Transportation
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KEYHOPDS: GAS TOWNERS ENGINES; DESIGN;
EPFICIENCY; FUEL ECONOMY; GRAPHS (CHARTS);
TABLES (DATA); DIAGRAMS; VEHICLES;
PERFORMANCI; DEVELOPMENT
AVAILABILITY; NTIS

Schwartz, W.J.
Fational Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 48135
TITLE: New Batteries and Their Impact on Electric
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SPONSOR: Energy Research and Development
Afainistration, Division of Transportation
Energy Conservation
REYGORDS: ELECTRIC VEHICLES: ELECTRIC VEHICLE
BANGE: COSTS: BATTERIES: PERFORMANCE;
COMPARATIVE EVALUATIONS

Schwarz, R.
ASI Engineering Inc.
ADDRESS: 4-5 South Pairview Avenue, Goleta, CA
93017
TITLE: Wear-Term Electric Vehicle Program.
Phase 1, Final Report

Report No. SAM/1295-1, 304 p.
1977, August
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Thergy Conservation
RTMOPDS: ELECTRIC VENICLES; DESIGN; BATTERIES;
PREPORNANCE; TABLES (DATA); GRAPHS (CHARTS);
DIAGRAMS; LIFE-CYCLE COST; COSTS; EFFICIENCY;
PREPGY STORAGE; URBAN TRANSPORTATION; ENERGY
CONSUMPTION; EMERGY CONSERVATION; WEIGHT
AVAILABILITY: NTIS

Shonka, D.B. Oak Ridge Waticnal Laboratory, Energy Division, Regional and Orban Studies Section ADDRESS: Oak Ridge, TH 37830 FITLE: Characteristics of Automotive Fleets in the United States: 1966-1977

Report No. ORML/TH-6889 Special, 89 p.
1978, September
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
EXYORDS: AUTOMOTIVE PLEETS: AUTOMOBILES:
INVESTORIES: PURCHASING: PURL ECONOMY:
OWNESSIP; SURVEYS: TABLES (DATA): SIZE;
VERICLE REGISTRATIONS: VERICLE HILES
TRAVELED: CHARACTERISTICS
AVAILABILITY: PTIS

Shonka, D.B.; Loebl, A.S.; Patterson, P.D.;
O'Connor, T.P.; Ogle, H.C.; Rose, A.B.;
Greene, D.L.
Oak Ridge Mational Laboratory, Energy Division,
Regional and Orban Studies Section
ADDRESS: Oak Ridge, TB 37380
TITLE: Transportation Energy Conservation Data
Book: Edition 2

Report Mo. ORML-5320, 459 p.
1977, October
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYMORDS: EMERGY CONSERVATION: HIGHWAY
TRANSPORTATION: AIR TRANSPORTATION; RAIL
TRANSPORTATION: HARRIE TRANSPORTATION;
PIPELIME TRANSPORTATION: STATISTICS; TABLES
(DATA); GRAPHS (CHARTS); VERICLES;
REGULATIONS; EMERGY CONSUMPTION; DEBAND
(ECONOMICS); FUEL ECONOMY; FUEL CONSUMPTION;
AUTOROBILES; EMERGY INTENSITY; TRAVEL; EMERGY
DEMAND; PASSENGER TRANSPORTATION; AUTOROTIVE
FLEETS; PETROLEUM; SALES; PUBLIC
TRANSPORTATION; URBAN TRANSPORTATION; VEHICLE
REGISTATIONS; VERICLE HILES TRAVELED;
FORECASTING; GOVERNMENT POLICIES; EMERGY
SUPPLIES; WATER TRANSPORTATION

Soltis, R.F.
National Aeronautics and Space Administration,
Levis Research Center
ADDRESS: Cleveland, OR 84135
TITLE: A Cycle Timer for Testing Electric Vehicles
Report Mo. DOZ/MASA/1011-78/27, MASA TH-7893a,
2-9677, Technical Paper presented at the
Fifth International Electric Vehicle
Symposium sponsored by the Electric Vehicle
Council, Philadelphia, PA, October 2-5, 1978,

COUNCIL, WRITEGEIPHIE, PA, UCTORET 2-5, 15
5 PORSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYNORDS: ELECTRIC VEHICLES: TESTING: DRIVING
CYCLE: VELOCITY: EQUIPHENT
AVAILABILITY: NUTS

Soltis, R.F.; Boxek, J.H.; Denington, R.J.; Dustin, H.O. Wational Acronautics and Space Administration, Levis Research Center ADDRESS: Cleveland, OH 44135 TITLE: Baseline Tests of the Kordesch Hybrid Passenger Vehicle

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SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation RESTRONDS: ELECTRIC VEHICLES: HYBRID ELECTRIC-POWERED VEHICLES; TESTING;

ACCELERATION; ELECTRIC VEHCILE RANGE; PASSENGER TRANSPORTATION; PUEL ECONOMY; SPARK IGNITION ENGINES; PERFORMANCE; DIAGRAMS; GRAPHS (CHARTS); EWERGY CONSUMPTION AVAILABILITY: NTIS

Soltis, R.P.; Dustin, H.O.; Sargent, N.B. Mational Aeronautics and Space Administration, Levis Research Center ADDRESS: Cleveland, OH 40135 TITLE: Pesults of Baseline Testa of the Lucas

Report No. NASA TH I-73609, 27 p.
1977, January
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; TESTING; DRIVE TRAIN
SISTEMS; BATTERIES; PASSENGER TRANSPORTATION;
DRIVING CYCLE; PERFORMANCE; HILEAGE; EMERGY
CONSUMPTION; STANDARDS; PHOTOGRAPHS; GRAPHS
(CHARTS); ELECTRIC VEHICLE RANGE
AVAILABILITY: HTIS

Southwest Research Institute; Cameron Engineers; Standard Oil Co. of Chio: SOMIO Petroleum Co. ADDRESS: SPI, San Antonio, TX; CE, Denver, CO; SOMIO, Grand Junction, CO TITLE: Identification of Probable Automotive Fuels Composition: 1985-2000 and Executive Summary

Report No. HCP/W3684-01/1, 218 p.; Report No. HCP/W3684-01/2 for Executive Summary, 55 p. 1978, Hay

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SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ALTEWBATE FUELS: HAW HATERIALS:
AUTOHOTIVE FUELS: DISSEL FUELS: HARRET;
TRANSPORTATION: EMERGY FLOW; TABLES (DATA):
FORECASTING; EMERGY DEMAND; SYMPHETIC
PETROLEUM: REFIMING; PROPERTIES: OIL SHALE;
ALCOHOL FUELS; AUTOHOBILES; HETMANOL; COAL;
PRODUCTIOM: HIDPOCARBOMS: IMPERMAL COMBUSTIOM
EMGINES; OCTANE; GASOLIME

Tacinm, R.

Fational Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OR 44135
TITLE: Experimental Evaluation of
Premixing-Prevaporizing Fuel Injection
Concepts for a Gas Turbine Catalytic Combustor

Report Wo. COMS/1011-18, WASA TH-73755, paper presented at the Winter Annual Heeting, American Society of Hechanical Ergineers, Atlanta, Georgia, November 27 - December 2, 1977, v.p. 1977, August SPOWSOR: Energy Research and Development

Attanta, Georgia, November 27 - December 2, 1977, v.p.
1977, August
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
REYMORDS: PUEL INJECTION SYSTEMS; ATOMICATION;
EVAPORATION; DIAGRAMS; GRAPHS (CHARTS); GAS
TURBINES; CATALISTS; CONBUSTORS; AUTOMOBILES
AVAILABILITY: NITS

Tew, R.; Jefferies, R.; Hiao, D. Fational Aeronautics and Space Administration, Levis Research Center ADDRESS: Cleveland, OH 88135 TITLE: A Stirling Engine Computer Hodel for Performance

Report No. DOZ/NASA/1011-78/24, WASA-TH-78884, 69 p.
1978, July
SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
KEYWORDS: STIRLING ENGINES; HODELS; PERFORMANCE: THERNODYNAMIC PROPERTIES; SIMULATION; COMPUTER PROGRAMS
AVAILABILITY: GPO, Stock No. 757-139/1201

Thermo Electron Corp.
ADDRESS: 101 First Avenue, Waltham, HA 02154
TITLE: Feasibility Test on Compounding the
Internal Combustion Engine for Automotive
Vehicles, Task II. Final Report

Report No. COO-2690-1, TE4193-76-75, 250 p.
1976
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYMORDS: INTERNAL COMBUSTION ENGINES; DIESEL
ENGINES; RANKINE CYCLE ENGINES; PERFORMANCE;
FUEL SCOMONY; TROKES; DESIGN; GRAPRS
(CHARTS); PILAGRANS; AUTOMOTIVE EMISSIONS;
FEASIBLLITY; TESTING; WASTE HEAT; RECOVERY;
UTILIZATION; LEMONSTRATION
AVAILABILITY: WIS

Towle, W.L.; Graae, J.E.A.; Chilenskas, A.A.; Ivins, R.O. Argonne National Laboratory ADDRESS: 9700 South Cass Ave., Argonne, IL 60%39 TITLE: Cost Estimate for the Commercial Hannafacture of Lithium/Iron Sulfide Cells for Load-Leveling

Report No. ANL-76-12, 67 p.
1976, Harch
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
RETWORDS: COSTS; LITHIUM/HETAL SULFIDE BATTERIES;
LOAD HANAGEMENT; UTILITIES; HANDFACTURING;
LITHIUM-ALOHINUM/HETAL SULFIDE BATTERIES;
PRICES; ECONOMICS; DIAGRAMS

U.S. Dept. of Energy, Nevada Operations Office ADDRESS: Las Vegas, NV TITLE: Driver Aid and Education Test Project. Final Report

Report Ho. DOE/CS-00m3, v.p.
1978, July
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYMORDS: AUTOHOBILE DRIVERS: EDUCATION;
AUTOHOTIVE PUBLS; PUBL ECONOMY: AUTOHOBILES;
TRUCKS: TESTING; HEASURING INSTRUMENTS;
DRIVING CYCLE; PEEDBACK; TABLES (DATA);
GRAPPS (CHARTS); HONTHLY VARIATIONS
AVAILABILITY; HTIS

Underhill, B.; Gott, P.; Hurter, D.; Mathews, H.;

Retcalf, E.; Wicol, J.; Parry, J.; Stratton,
L.; Strong, S.; Dullivan, D.; Teeters, P.;

Whittier, A.

Little (Arthur D.) Inc.

ADDRESS: 25 Acorn Park, Cambridge, HA 02180

TITLE: Recommended Performance Standards for

Electric and Mybrid Vehicles

Peport No. SAM/1335-1, 164 p.
1977, September
SPOWSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
REYMORDS: ELECTRIC VEBICLES; HYBRID ELECTRIC-POSERED VERICLES; PERFORMANCE; STANDARDS; RESPARCH; QUESTIONNAIRES; SURVEYS; TABLES (DATA); GRAPHS (CHARTS)

Onion College, Graduate Studies and Continuing Education ADDRESS: Schenectady, NY 12308 "ITLE: Pourth Mational Conference on the "Effects of Energy Constraints on Transportation Systems"

Proceedings of a conference held at Union College, Schenectady, New York, on August 1-5, 1977, v.p.

1977
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYMOP DS: TRANSPORTATION; COMPERENCES; EMERGY
SHONTAGES; PLANNING; EFFICIENCY; INTERCITY
TRANSPORTATION; PASSENGER TRANSPORTATION;
CARGO TRANSPORTATION; AIR TRANSPORTATION;
INTERCITY TRANSPORTATION; RAIL
TRANSPORTATION; GOVERNMENT POLICIES; ELECTRIC

VEHICLES; RESEARCH; EMERGY CONSUMPTION

Wagner, J.R.; Maughton, J.; Brooks, W.P.; Davis, R.
Brookhaven Mational Laboratory, Mational Center for Analysis of Energy Systems
ADDRESS: Upton, NT
TITLE: Light Duty Highway Pleets: The Potential for Alternative Technologies in Fleets
Operated by Corporations and State and Local Governments

Interia Briefing, presentation will be published as "Fleet Operator Vehicles: Summer 1977 Data," Report Bo. BHL-5090# 1978, Harch 3
SPONSOF: U.S. Dept. of Energy, Division of Transportation Energy Conservation KEYWORDS: AUTOMOTIVE FLEETS; HODELS; FORECASTING; HARRET; VEHICLE REGISTRATIONS; AUTOHOBILES; HIPBID ELECTRIC-POWERED VEHICLES; PUCRHASING; WEIGHT: EQUIPBENT; TRUCKS; HIGHBAY TRANSPORTATION; PASSWEGER TRANSPORTATION; CAPACITY; DIESEL FUELS; AUTOHOTIVE ENGINES; SIZE; TABLES (DATA)

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Congressional Committee Print, 94th Congress, 2nd Session, Serial No. 94-46 (92-136), 1359 p. 1976
SPONSOR: U.S. Senate, Committee on Interior and Insular Affairs
REMONDS: EMBERG POLICY; HISTORY; GOVERNMENT POLICIES: NATURAL RESOURCES; US PEA; US ERDA; US DOE: BIBLIOGRAPHIES; IMPORNATION; LEGISLATION

Abbott, R.K.; Kirsten, F.A.; Hullen, D.R.; Turner, D.B. Lawrence Berkeley Laboratory ADDRESS: University of California, One Cyclotron Rd., Berkeley, CA 94720 TITLE: Locosotive Data Acquisition Package: Phase 1. Final Report
Report No. LBL-7945, DOT/FRA/ORSD/RRD-12, 125 p. 1978. September

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1978, September
SPONSOR: U.S. Dept. of Transportation, Federal
Railroad Administration, Office of Research
and Development
KEYMORDS: LOCCONOTIVES; RAILROAD CARS; DATA
ACQUISITION; DATA ACQUISITION SYSTEMS; DATA
PROCESSING; TRANSDUCERS; IMPACT SHOCK;
HECHARICAL VIBRATIONS
AVAILABILITY: HTIS

Abt Associates Inc.
ADDRESS: Cambridge, HA
TITLE: Impact of the FEA/EPA Fuel Economy
Information Program: An Evaluation of the
FEA/EPA Gas Hileage Label and 1976 Gas
Hileage Guide for New Car Buyers. Volume I:
Executive Summary

Report Ro. PB-266567, 31 p.
1976, June
SPONSOR: Federal Energy Administration
KETWORDS: US FRA; FUEL ECONOMY; ENVIRONHENTAL
FROTECTION AGENCT: SURVEYS; AUTOHOBILES; FUEL
CONSUMPTION; GASOLINE; ATTITUDES;
INFORMATION; HILEAGE; CONSUMERS
AVAILABILITY: NTIS

C4> Adams, F.G.; Graham, H.; Griffin, J.H. Pennsylvania, University of, Dept. of Economics, Economics Research Branch ADDRESS: Philadelphia, PA 19104 TITLE Demand Elasticities for Gasoline: Another View

Discussion Paper No 279, 15 p.
1974, June 15
REYWORDS: ELASTICITY (ECONOMICS); GASOLINE;
ENERGY DEMAND; PRICES; MATREMATICAL MODELS;
FURL CONSUMPTION; VEHICLES; INCOME; DEMAND
(RCOMONICS); WEIGHT; SIZE; TIME SERIES
ANALTSIS

<5> Adams, G.R. Hational Technical Information Service ADDRESS: 5285 Port Royal Road, Springfield, VA 22161 TITLE: Dual Hode Transportation (A Bibliography with Abstracts)

Report Ro. PTIS/PS-77/0490 (supersedes BTIS/PS-76/0352 and BTIS/PS-75/287), 161 p. 1977, June REYWORDS: BIBLIOGRAPHIES; TRANSPORTATION; SOCIO-ECOHOHIC PACTORS; URBAN TRANSPORTATION; RAIL TRANSPORTATION; BAPID TRANSIT SYSTEMS; PASSENGER TRANSPORTATION; BUSES (VERICLES); COSTS; REGIONAL PLANNING; ABSTRACTS; PERSONAL RAPID TRANSIT; COMMUNICATION; DIAL-A-RIDE; CARGO TRANSPORTATION; TRANSPORTATION SYSTEMS AVAILABILITY: NTIS

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Adams, G.H.
Tational Technical Information Service
ADDRESS: 5285 Port Royal Road, Springfield, VA
22161
FITLE: Tourism and Vacation Travel: State and
Local Government Planning (A Bibliography
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Report No. HTIS/PS-77/0684 (supersedes
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FACTORS: TOURISM: ECOBORIC DEVELOPMENT:
RECREATION: STATE GOVERNMENT: LOCAL
GOVERNMENT: PLANNING: LAND USE
AVAILABILITY: HTIS

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ADDRESS: 5285 Port Royal Road, Springfield, VA
22161
TITLE: Bus Transportation. Part 1. Wational and
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Abstracts)

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SCHEDULING: COSTS: SUBSIDIES: PMGINEERING:
HIGHFAYS: HODELS: TRAFFIC: CONFERENCES;
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REWORDS: INTERCITY TRANSPORTATION;
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HYDROELECTRIC POWER; URANIUM ORE; SYNTHETIC
PUELS; EMERGY DEMAND; EMERGY RESOURCES; FORLS; RERNAL DEMAND; EMENGY RESOURCES; HATERIALS; REGIONAL MANLYSIS; COHHODITIES; ELECTRIC POWER DEMAND; DEMAND (ECOMORICS); SUPPLY (ECOMORICS)
AVAILABILITY: GPO, Stock No. 024-001-02867-1

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TABLES (DATA)
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ADDRESS: Kendall Square, Cambridge, HA 02142
TITLE: Transportation Systems Center Bibliography
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KETWORDS: BIBLIOGRAPHIES; TRANSPORTATION; U.S. Dept. of Transportation, Office of AIRCRAFT: FUEL CONSUMPTION; NOISE (SOUND); RALLROADS; UBBAN TRANSPORTATION; VERTICLES; ENVIRONMENTAL IMPACT; GOVERNMENT POLICIES; REGULATIONS; AIR TRANSPORTATION; MIGNRAY TRANSPORTATION AVAILABILITY: HTIS

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AUTOMOBILES: TURBINE BLADES; ENGINES: GAS
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ADDRESS: 555 N. Kensington, Ave., La Grange Park,
IL 60525

TITLE: Proceedings of the 12th Intersociety
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BRAITON CYCLE; ELECTRIC VENICLES; BATTERIES;
ENERGY CONSERVATION; EQUIPMENT; ENVIRONMENTAL
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ENERGY SOURCES; MAGNETONIDODYNANICS; RANKINE
CYCLE ENGINES; STIRLING ENGINES; THERNIONICS;
ENERGY CONVERSION; DESIGN; WASTE HEAT;
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TITLE: Transit Fact Book, 1977-78 Edition Annual Publication, 1977-78 edition, 64 p. ARBAHAT PUBLICATION, 1977-76 WALTION, 64 P.
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TITLE: 1976 Inland Waterborne Commerce Statistics

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KEYWORDS: WATER TRANSPORTATION; STATISTICS;
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TITLE: Urban Nass Transportation Industry Uniform
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KPTWORDS: URBAN TRANSPORTATION; HASS
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OPEPATING COSTS; DATA RCQUISITION; FORMS
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ADDRESS: Liversore, CA 94550
FITLE: Alternative Fuels for Transportation:
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ENGINES; PRODUCTION; PETFOLEON; COAL;
SYNTHETIC FUELS; GOVERNMENT POLICIES; OIL
SHALE; GRAPHS (CHARTS); TABLES (DATA);
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AVAILABILITY; NTIS

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National Aeronautics and Space Administration,
Levis Research Center
ADDRESS: Cleveland, OH 44135
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FUELS; PERFORMANCE: CONBUSTION; MITROGEN
OXIDES; EFFICIEMENT; EMISSIONS; COMPARATIVE
EVALUATIONS; CATALISTS; HIGHMY
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TITLE: President's Proposed Energy Tax Heasures Costly for Consumers

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PRODUCT; FORECASTING; MODELS; ECOMOMETRIC
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K*YMORDS: GAS TURBINES; AUTOMOBILES; GAS TURBINE
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PERFORMANCE: TESTING; AUTOMOTIVE EMISSION
CONTROL: FUEL ECONOMY: PHOTOGRAPHS
AVAILABILITY: Society of Automotive Engineers,
800 Commonwealth Drive, Warrendale, PA 15096

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**TITLE: Development of Lithium/Hetal Sulfide
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KETWORDS: LITHINH/METAL SULFIDE BATTERIES; ENERGY
STORAGE; HATERIALS; ELECTRODES; ELECTRIC
TILLITIES; ELECTRIC VEHICLES;
LITHINH-ALUMINUM/RETAL SULFIDE BATTERIES;
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ADDRESS: 9700 South Cass Avenue, Argonne, IL 60439 DOF.YS
TITLE: High-Performance Batteries for Stationary
Energy Storage and Electric-Tehicle
Propulsion. Progress Reports

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SPONSOR: Energy Research and Development
Administration: U.S. Dept. of Energy
RETWORDS: EMERGY STORAGE; ELECTRIC VERICLES;
BATTERIES; PERFORMANCE; COMMERCIALIZATION;
TESTING: HATERIALS; UTILIZATION
AVAILABILITY: MTIS

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TITLE: Econometric Dimensions of Energy Demand
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TABLES (DATA); INDUSTRIES; AUTOHOBILES;

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SPONSOR: Society of Automotive Engineers
RETWORDS: STIRLING ENGINES; THERMAL EMERGY
STORAGE EQUIPMENT; DESIGN; GRAPHS (CHARTS);
DIAGRAMS; PERFORMANCE; SALDS; HEAT PIPES;
PLOGRIDES

AVAILABILITY: Society of Automotive Engineers, Inc., 400 Commonwealth Drive, Warrendale, PA 15096

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1978, June 19
KETWORDS: PETROLEUM; PIPBLINE TRANSPORTATION;
PETROLEUM PRODUCTS; HISTORY; WATER
TRANSPORTATION; TRUCKS; RAIL TRANSPORTATION; TOWNAGE; STATISTICS; TABLES (DATA)

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EMPLOYMENT; INCOME; FUEL COMSUMPTION; TABLES
(DATA); EQUIPMENT; HISTORY; TOWARGE; MILEAGE;
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ANALYSIS: TABLES (DATA)

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 PITLE: Railroads and Their Operated Hileage in
 the Several States As of December 31, 1974

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1975, December
RETUGEDS: BALLEOADS; HILEAGE; REGIONAL ANALYSIS;
CANADA; HERICO; TABLES (DATA); OPERATION;
STATE ANALYSIS

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REYMORDS: RAILROADS; REGIONAL AWALYSIS; CARGO
TRABSPORTATION; EMPLOYEES; TAXES;
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AUTOMOTIVE ENGINES; ELECTRIC VEHICLES; US
ERDA: FREL CONSUMPTION
AVAILABILITY: HITS

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Avriel, H.
Stanford University, Dept. of Operations
Research, Systems Optimization Laboratory
ADDRESS: Stanford, CA
TITLE: Modeling Personal Consumption of Goods in
the PILOT Energy Hodel

Technical Report SOL 76-17, 31 p. Technical Report SOL 75-17, 31 p.
1976, August
\$POMSOR: Energy Research and Development
Administration: Electric Power Research
Institute: Stanford University, Institute for
Energy Studies
KEIWORDS: EMERGY HODELS; IWCOME; EXPENDITURES;
WATURAL GAS: COAL; PETROLEUM; ELECTRIC POWER
DEMAND; AGRICULTURE: FOOD; WHOLESALE TRADE;
RETAIL TRADE; LTMEER; APPLIANCES;
CONSTRUCTION: HACHIWERY; GRAPHS (CHARTS);
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Ranner (Leo) Associates
ADDRESS: Redwood City, Ch 94063
FITLE: Electric Propulsion for Road Vehicles.
State of the Art and Problems

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Forschungslaboratorius
ADDRZSS: Germany
TITLE: Electric Vehicles in Germany - Present and Puture

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RETWORDS: ELECTRIC VEHICLES; GERHAW PEDERAL
REPUBLIC; EMERGY STORAGE; DRIVE TRAIN
SISTEMS; PRICES; MAINTENANCE; HYBRID
EMECTRIC-POWERED VEHICLES; PHOTOGRAPHS;

DIAGRAMS
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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Balasubramaniam, H.; Jenkins, R.
TRW Inc., Energy Systems Planning Division ADDRESS: NcLean, VA 22101
TITLE: Automotive Fuel Requirements with Increasing Diesel Car Population and Implications to Refining Operations

Report No. PA 3885-22-1, v.p.
1976, January
SPONSOR: U.S. Dept. of Energy, Office of Policy
and Evaluation
RETHORDS: DISSEL ENGINES; AUTOMOTIVE FUELS;
PETROLEUM REPINERIES: PORECASTING; GASOLINE;
DISSEL FUELS; GRAPHS (CHARTS): PETROLEUM
REFINENG; DISTILLATES; SUPPLY (FCONOMICS);
DEMAND (ECONOMICS)

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Balkus, K.
Plorida State University
ADDRESS: Tallahassee, PL 32306
TITLE: Transportation Issues in Consuser
Hotivation

Paper presented at the 52nd Annual Meeting of the Highway Research Board, published in Righway Research Record No. 839, 1-9

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SPONSOR: National Academy of Sciences, National Research Council, Highway Research Board REYBORDS: CONSUMERS; TRANSPORTATION; ATTITUDES; DELPHI METHOD: TABLES (DATA); QUESTIONNAIRES; MASS TRANSPORTATION
AVAILABILITY: National Academy of Sciences, "ransportation Research Board, 2101 Constitution Ave. NW, Washington, DC 20418 \$2.00 for Highway Research Record No. 439

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AUTOMOBILES: COMMUTING: TESTING; DRIVING
CYCLE; COMPARATIVE EVALUATIONS; MEASURING
IMSTRUMENTS; AUTOMOBILE DRIVERS
AVAILABILITY: NTIS

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REYMORDS: AUTOMOBILES: DEMAND (ECOMORICS): DISSEL
FUELS: PETHOLEUM REFIRING: COMPARATIVE
EVALUATIONS: GASOLIFE: FUEL ECOMORY:
PPENDAMNEE: AUTOMOTIVE EMISSIONS
AVAILABILITY: Society of Automotive Engineers,
800 Commonwealth Drive, Warrendale, PA 15096 1977

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TITLE: Energy Supply-Demand Integrations to the Year 2000: Global and National Studies

Third Technical Report of the Workshop on Alternative Energy Strategies (WAES), 720 p. 1977 1977
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WORNAY; SPEDEN; UNITED KINGDON; UNITED
STATES; BURDOP; HODELS; INTERNATIONAL
ANALYSIS; EMERGY SUPPLIES; EMERGY DEMAND;
FORECASTING; EMERGY BALANCE; EMERGY
CONSUMETION; PRICES; GOOWTH; TRANSPORTATION;
RESIDENTIAL SECTOR; CONHERCIAL SECTOR;
IMDUSTRIAL SECTOR; CONHERCIAL SECTOR;
IMDUSTRIAL SECTOR; LOUDSTRIES; FUELS; TABLES
(DATA); INTERNATIONAL TRADE; IMPOETS;
EXPOPTS; GROSS WATIONAL PRODUCT; CANADA;
DEMANR; FINLAND; FRANCE; GERRAN FEDERAL
REPUBLIC
AVAILABLITY: HIT Press, Cambridge, HA 02139

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GASOLLEE; AUTOROBLES; AUTOROFIFE BRISSIONS;
HAINTENANCE; COSTS; TESTING; GRAPHS (CHARTS);
TABLES (DATA)
AVAILABILITY: Society of Autorotive Engineers
Inc., 400 COMMO

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Risconsin, University of, Engineering Experiment
Station
ADDRESS: 1500 Johnson Drive, Hadison, WI 53706
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KETUORDS: CORPUTERIZED SIMULATION; FLIWHELLS:
BRISSIONS; FULL ECONOM; ENERGY CONSERVATION;
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AVAILABILITY: HTIS

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KETWORDS: EMGINES: FUEL CONSUMPTION; GRAPHS (CHARTS); AUTOHOTIVE EMISSIONS; EFFICIENCY; TESTING; CYLINDES; TABLES (DATA); FUEL ECONOMY; VELOCITY AVAILABILITY; NTIS

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".S. Dept. of Energy, Bartlesville Energy
Besearch Center
ADDRESS: Bartlesville, OK
TITLE: Performance of Gasoline and Diesel Fuels
Produced from Coed Syncrude</pre>

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1978, June
REYWORDS: GASOLINE: DIESEL PUBLS: PERFORMANCE:
SYMHETIC FOELS: ALTERNATE FUELS: SPARK
IGUITION ENGINES: STIRLING ENGINES:
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WYALDATIONS: TESTING: GRAPES (CHARTS): TABLES
(DATA): AUTOOTIVE EMISSIONS
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 Bartlesville Energy Research Center
ADDRESS: Bartlesville, OK
TITLE: Valve Timing--Its Effect on Emissions and
 Fuel Economy

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1977, August
REYMORDS: PUEL ECONONY; FUEL CONSUMPTION;
AUTOHORY E BRISSIONS; TABLES (DATA); GRAPHS
(CHARTS); PERFORMANCE; POLLUTION CONTROL
EQUIPMENT: EFFICIENCY: NITROGEN OXIDES;
HYDROCAREONS; CABBON HONOXIDE; VALVES;
AUTOHORY E BRISSION CONTROL
AVAILABILITY: HTIS

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TITLE: Behavior of Car Owners During the Gasoline
Shortage

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RETHORDS: BEHAVIOR; AUTOMOBILES; OWNERS;
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TRAESPORTATION; HARKET; SURVETS; VEHICLE
TRIPS: SOCIO-BCODORIC FACTORS; PORTLAND
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RETWORDS: EMERGY SHORTAGES; LAND USE;
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TRANSPORTATION; PRICES; GASOLIME;
AVAILABILITY; HAPS; GRAPHS (CHARTS); TABLES
(DATA) (DATA) AVAILABILITY: WTIS

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TITLE: Analysis of Past and Expected Future Trends in U.S. Energy Consumption, 1987-2000

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Brookhaven Hational Laboratory; Argonae National Laboratory
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KETMORDS: ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VEHICLES; ENVERGY STORAGE;
PERFORMANCE: COSTS: ENVIRONMENTAL IMPACT;
TABLES (DATA); PROPULSION; BATTERIES;
AUTOMOTIVE ENGINES; GRAPES (CHARTS);
AUTOMOBILES; COMPERCIALIZATION
AVAILABILITY: HTIS

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Belloso, S.J.; Dial, R.B.; Voorhees, A.R.
Voorhees (Alan H.) and Associates Inc.
ADDRESS: HoLean, VA 22101
TITLE: Factors, Trends, and Guidelines Related to
Trip Length

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SPONSOR: American Association of State Highway Officials; U.S. Bureau of Public Roads; National Academy of Sciences, National Research Council, Haghway Research Board REIWORDS: CRAPHS (CHARTS); TABLES (DATA); HAPS; VEHICLE TRIPS; TRAFFIC; ORBAN AREAS; LAND USE; TRANSPORTATION SISTEMS; URBAN TRANSPORTATION SISTEMS; URBAN TRANSPORTATION FLANNING; SIOUX CITT (IOWA); READING (PENNSILVANIA); DETROIT (MICHIGAN); AUTOHOBILES; HASS TRANSPORTATION AVAILABILITY: National Academy of Sciences, Highway Research Board, 2101 Constitution Ave. NW, Washington, DC 20018 \$3.20

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Voothees (Alan H.) and Associates Inc.
ADDRESS: 7600 Old Springhouse Road, Holean, VA
22101
TITLE: Statewide Travel Porecasting Procedures
Tecluding Activity Allocation and Weekend
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SPONSOR: U.S. Dept. of Transportation, Federal
Highway Administration, Office of Highway
Planning, Program Hanagement Division
REWORDS: WERKEND TRAVEL; VERICLE TRIPS;
CONDECTICUT; BECREATIONAL TRAVEL; STOCHASTIC
PROCESSES; SIMULATION; MODELS; LIPE STYLE;
DISTRIBUTION; LAND USE; PORECASTING; TABLES

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Hassachusetts Institute of Technology, Dept. of
 Civil Engineering, Transportation Systems
 Division
ADDRESS: Cambridge, HA 02139
TITLE: Use of Forecasting Hodels in
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EXYMORDS: POPECASTING; NODELS; TRANSPORTATION;
PLANNING; URBAN TRANSPORTATION; DEMAND
(ECONOMICS); GOVERNMENT POLICIES; RESEARCH
AVAILABILITY: Oak Ridge Associated Universities,
P.O. Box 117, Oak Ridge, TH 37830 for entire proceedings

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Bernard, H.J.; LaBelle, S.J.; Hillar, H.;
Walbridge, E.W.
Argonne Hational Laboratory, Energy and
Environmental Systems Division
ADDRESS: 9700 South Cass Avenue, Argonne, IL

Informal Report, Report No. ANL/EES-TM-1

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1978, March
5POMSOF: U.S. Dept. of Energy, Transportation
Energy Conservation Division, Data Analysis
Eranch
KEY*ORDS: FORECASTING: TRANSPORTATION SYSTEMS;
LIFE STYLE: ELECTRIC VERICLES; HODELS;
SOCIO-ECONORIC FACTORS; US DOS; TECHNOLOGY;
POPULATICE GROFTH: EMERGY SHORTAGES; ECONORIC
ATALYSIS; AUTONOBILES; OWNERSHIP; EMERGY
CONSUMPTION; GRAPHS (CHARTS); GASOLINE;
VERICLE MILES TRANSLED; GOVERNMENT POLICIES;
CARGO TRANSPORTATION
AVAILABILITY: NTIS AVAILABILITY: NTIS

Coby Bernhardt, W. (chairman) Folkswagenwerk AG TITLE: Proceedings: International Symposium on Alcohol Fuel Technology - Methanol and Ethanol

Peport No. CONF-771175, proceedings of conference held November 21-23, 1977, Wolfsburg, Federal Republic of Germany, English translation published by U.S. Dept. of Energy, Division of Transportation Energy Conservation, v.p. 1978, July SPONSOR: German Federal Ministry for Research and SPONSOR: German Tederal Ministry for Research an Technology (BHPT)
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Bigelow and Associates
TITLE: Integrated Economic-Social-Environmental
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SPONSOR: National Academy of Sciences,
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RETWORDS: SOCIO-ECOMONIC FACTORS; ENVIRONMENTAL
INFACT; TRANSPORTATION SISTEMS; PLANNING;
GOVERNMENT POLICIES; LAND USE; CITIZERS GROUPS
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$6.00 for Transportation Research Record No.
565

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Billing, J.R.; Grouni, H.N.; Vuchic, V.R.
Ontario Ministry of Transportation and
Communications, Research and Development
Division; Pennsylvania, University of, Deptof Engineering
ADDRESS: ONTC, Ontario, Canada; UP, Philadelphia,
pa PA
TITLE: Design of Elevated Guileway Structures for
Light Rail Transit (Abridgment) (Discussion) Paper published in Transportation Research Record 627, 17-21 (Discussion p. 20) 1977
SPONSOF: National Academy of Sciences,
Transportation Research Board
RETWORDS: RAPID TRANSIT SYSTEMS; DESIGN;
RIGHT-OF-WAY: PERFORMANCE: ELEVANTED GUIDEWAYS
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$2.20 for Transportation Research Record 627

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Report No. UCID-17316(Ft. 1), 133 p. for Part I: Report No. UCID-17316(Pt. 2), 277 p. for Part II 1976, Rovember
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Transportation Systems Center, Information NETWORDS: TRAMSPORTATION; DATA BASES; ABSTRACTS; BEBLIOGRAPHIES; EWERGY MODELS; SURVEYS AVAILARILITY: WIIS

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Mitre Corp.
ADDRESS: McLean, VA 22101
TITLE: A Preliminary Assessment of Empty Hiles
Traveled by Selected Regulated Motor Carriers

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REYMORDS: CAMBO TRANSPORTATION; PETPOLEUM
PRODUCTS: PUBL COMSUMPTION; TRUCKS; HOUSEHOLD

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Bjerklie, J.W.; Cairns, E.J.; Tobias, C.W.;

Wilson, D.G.
Hague International; Argonne Hational Laboratory;
California, University of; Hassachusetts
Institute of Technology
ADDRESS: HI, The Hague, Metherlands; AML, 9700
South Casm Avenue, Argonne, IL 60439; CU,
Herkeley, CA 94720; HIT, Casbridge, HA 02139
TITLE: An Evaluation of Alternative Power Sources
for Low-Paission Automobiles

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Automotive Engineers' Automobile Engineering
Heeting, Detroit, Hichigan, October 13-17,
1975
SPOMSON: Society of Automotive Engineers
KEYWORDS: AUTOHOTIVE EMISSIONS; EMGIMES; RANKINE
CYCLE ENGINES: STIRLING EMGIMES; RANKINE
CYCLE ENGINES: STIRLING EMGIMES; ELECTRIC
VERICLES; GRAPHS (CHARTS); COSTS; COMPARATIVE
EVALUATIONS
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096

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Blonquist, A.P.; Hikel, S.A.
Chrysler Corp.
ADDRESS: Detroit. HI
TITLE: The 1978 Chrysler Torque Converter Lock-Up
Clutch
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AUTOMOBILE TRANSHISSIONS; DIAGRAMS: DESIGN;
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Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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Bobit Publishing Co., Research Dept.
ADDRESS: 2500 Artesia Boulevard, Redondo Beach,
CA 90278
FITTE: Report on the Aspects of Automotive Pleet
Operations on Transportation Energy
Conservation
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SPOUNDOR: Energy Research and Development
Administration; Oak Ridge Mational Laboratory
KENTORDS: AUTOMOTIVE PLEETS; LEASING: TRUCKS;
HILEAGE: RETAIL TRADE; PORECASTING: OPERATING
COSTS: MAINTEMBARCE; REPAIR: ELECTRIC
VEHICLES: INSUBARCE; TAZES; AUTOMOTIVE
ENGINES; STATISTICS; OWNERSHIP; AUTOMOBILES;
FUEL ECOMORY; TABLES (DATA); VEHICLE
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1977, July
KEYNORDS: CARGO TRANSPORTATION: RATES (COSTS);
TRUCKS; REPRIGERATION; PRUITS; CALLFORNIA;
PLORIDA; TEXAS; TABLES (DATA); VEGETABLES;
COSTS
AVAILABILITY: HTIS

Bolger, J.G.; Epps, R.C.; Jansen, J.P.; Biller, A.P.; O'Connell, L.G.
Lawrence Liversore Laboratory; Lawrence Berkeley
Laboratory
ADDRESS; LLL, University of California,
Liversore, CA 94550; LBL, Berkeley, CA 94720
TITLE: Application of Energy Storage Power
Systems to Monhighway Transportation

Report No. UCRL-52333, 50 p.
1977, Nay
SPONSOR: Energy Research and Development
Administration
REMYORDS: TRANSPORTATION; EMERGY STORAGE; EMERGY
COMSUMPTION: RAIL TRANSPORTATION; RAPID
TRANSIT SYSTEMS; BATTERIES: DEVELOPMENT;
FLYWHEELS; GRAPHS (CHARTS); TABLES (DATA);
AVIATION; MARINE TRANSPORTATION; PIPELIMES
AVAILABLITY: NITS

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ADDRESS: University of California, Berkeley, CA
TITLE: Investigation of the Feasibility of a Dual
Hode Electric Transportation System
Report No. LBL-6301, 159 p.
1977, Hay
SPORSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
RETWORDS: HIGHWAY TRANSPORTATION: TRANSPORTATION

Bolger, J.G.; Kirsten, P.A.

Administration, Division of Transportation
Energy Conservation
KEYORDS: RIGHMAY TRANSPORTATION; TRANSPORTATION
SYSTEMS; ELECTRIC VEHICLES; EMERGY STORAGE;
DUAL MODE ELECTRIC TRANSPORTATION SYSTEM;
TABLES (DATA); DESIGN; MAGNETIC FIELDS;
GRAPHS (CHARTS); CALIFORNIA; COSTS; ALTERNATE
FUELS; COMPARATIVE EVALUATIONS; SAFETI
AVAILABILITY; NTIS

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Report No. LBL-7522, 74 p.
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SIONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: PERFORNANCE: TESTING; DESIGN; ELECTRIC
VENICLES; DRIVING CYCLE; EMERGY STORAGE;
ELECTRIC HIGHMAY SISTEMS; COUPLINGS; BATTERIES
AVAILABILITY: NTIS

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<80> COMT. TITLE: A Study of the Effect of Oil and Coolant Temperatures on Diesel Engine Brake Specific Fuel Consumption

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1971 SPONSOR: Society of Automotive Engineers
KRIWORDS: DIESEL ENGINES: PUBL CONSUMPTION:
COOLANTS: OILS: TEMPERATURE: GRAPHS (CHARTS); TRETTYG

AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096

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**Assachusetts Institute of Technology, Dept. of
Urban Studies and Planning
ADDRESS: Casbridge, MA 02139

TITLE: Some Conditions of Hacrosconosic Stability
in **ultiregional Nodels

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1975, September
SPOHSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of University Research
KEYWORDS: IMPUT-0UTPUT AWALYSIS: MODELS:
COMPARATIVE EVALUATIONS: REGIONAL MALYSIS: TRANSPORTATION; TRADE; COMMODITIES; ECONOMICS AVAILABILITY: NTIS

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BOOZ, Allen & Hamilton Inc.
ADDRESS: 9330 East West Hwy., Bethesda, MD 200
TITLE: Energy Use in the Harine Transportation
Industry. Volume IV: Task III-Efficiency
Improvements, Task IV-Industry Future

Final Report, Volume IV, v.p.

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SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation, Mon-Highway Transport Systems

FEYWORDS: ENERGY CONSUMPTIOS. MARINE TRANSPORTATION: ORECASTING; CARGO TRANSPORTATION: OREAT LARES; WATER TRANSPORTATION: MARENAY TRANSPORTATION: COASTAL REGIONS; RECREATION VEHICLES; FISHING I"DUSTRY; FUEL CONSUMPTION; TABLES (DATA);

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22 p.
19/8, Pebruary
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Mighway Traffic Safety Administration
REYWORDS: FOEL ECONOMY: BEHAVIOR; CONSUMERS;
AUTOHOBILES; SURVEYS; ATTITUDES;
TRANSPORTATION

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SPONSOR: U.S. Dept. of Transportation, Urban Hass
Transportation Administration, Bus Projects
Division
KEYNOROS: TRANSBUS; BUSES (VENICLES); DESIGN;
ENGINEERING; TESTING; PRODUCTION; SAPETY;
PASSENGER TRANSPORTATION; HUMAN COMPORT;
OPERATION; TRANSPORTATION DISADVANTAGED;
TABLES (DATA); HAMUPACTURERS; PHOTOGRAPHS;
GRAPHS (CHARTS); DIAGRANS
AVAILABILITY; HTIS

<85> Booz, Allen Applied Research Inc. ADDRESS: 4733 Bethesda Avenue, Bethesda, HD 20014 TITLE: Transbus: Technical Data

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REYWORDS: BUSES (VEHICLES); DESIGN; DIAGRAMS;
PHOTOGRAPHS; PASSENGER TRANSPORTATION;
SPECIFICATIONS; TRANSBUS; CHARACTERISTICS
AVAILABILITY: NTIS

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Boretsky, M.
U.S. Dept. of Commerce
ADDRESS: Washington, DC
TITLE: Opportunities and Strategies for Energy
Conservation

Technology Review, 79(8), 57-62

1977, July/August
KETWORDS: EBERGY CONSERVATION: ENERGY
CONSUMPTION: GROSS NATIONAL PRODUCT:
INDUSTRIAL SECTOR: PRODUCTION;
TRANSPORTATION: ENERGY SOUPCES; COMPARATIVE
EVALUATIONS; RESIDENTIAL SECTOP; EFFICIENCY;
ELASTICITY (ECONOMICS); PRICES; EMERGY
DEMAND; AUTOMOBILES; LIPE STILE; UNITED
KINGDOM; FRANCE; GERMAN FEDERAL REPUBLIC;
NETHERIANDS: BELGIUM: HORBAY: SHEDEN; LTALY: NETHERLANDS; BELGIUM; HORWAY; SWEDEN; ITALY; JAPAN

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Transportation Research Board
KEYMORDS: LAND USE; PLANNING; TRANSPORTATION
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VERICLE PARKING
AVAILABILITY: National Academy of Sciences,
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Administration, Lewis Research Center
REYPORDS: PLECTRIC VEHICLES; TESTING; TIRES; ROAD
TESTS: WIND: PRICTION: BATTERIES; VELOCITY;
TABLES (DATA); EPPICIENCY
AVAILABILITY: Society of Automotive Engineers
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Energy Conservation
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ADDRESS: Phoenix, AR 85068
TITLE: Puel Economy Through Teamwork: The
 Science of Saving Puel

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SPONSOR: U.S. Dept. of Transportation
RETFORDS: FUEL ECONOMY; BUSES (VEHICLES); DESIGN
AVAILABILITY: U.S. Dept. of Energy, Voluntary
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Washington, DC 20461

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ADDRESS: Phoenix, AP 85068
TITLE: Fuel Economy Through Teamwork: Operating
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1977, October 7
SPONSOR U.S. Dept. of Transportation
RETMORDS: PASSENGER TRANSPORTATION; BUSES
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ADDRESS: Phoenix, AP 85068
TITLE: Fuel Economy through Teamwork: Driving
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SPONSOR: U.S. Dept. of Transportation
KETWORDS: PASSENGER TRANSPORTATION; BUSES
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AVAILABILITY: U.S. Dept. of Energy, Voluntary
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RELATIONS AVAILABILITY: U.S. Dept. of Energy, Voluntary Truck and Rus Fuel Economy Program, Washington, DC 20461

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ADDRESS: Warren, HI 48090
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PEFFORMANCE; GRAPHS (CHARTS)
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
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U.S. Pept. of Transportation, Transportation Systems Center; Oak Ridge Mational Laboratory, Realth Physics Division; U.S. Dept. of Transportation, Office of the Secretary, Office of the Assistant Secretary for Policy, Plans, and International Affairs ADDRESS: DOT/TSC, Kendall Square, Cambridge, HA 02142; ORBL, Oak Ridge, TH 37830; DOT, Washington, DC 20590
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(STATISTICS); REFLOYHERT: SOCIO-ECONOMIC
FACTORS; GRAPES (CHARTS); TABLES (DATA);
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SEX: AUTOMOBILES; OWNERS; HOUSING
AVAILABILITI: NTIS

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ADDRESS: HcLean, VA
TITLE: Effect of Automatic Vehicle Monitoring
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AVAILABILITY: Mational Academy of Sciences, Transportation Research Board, 2101 Constitution Ave. NW, Washington, DC 20418 \$2.20 for Transportation Research Record 626

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California, University of, Institute of
 Transportation Studies, California
ADDPTSS: Berkeley, CA
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UTILIZATION; AUTOMOTIVE INDUSTRY; PRODUCTION;
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Illinois, University of, Center for Advanced
Computation, Energy Research Group
ADDRESS: Urbana, IL 61801
TITLE: Energy Analysis: Handbook for Combining
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AVAILABILITY: NTIS

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TRANSPORTATION; SPYRCIBACY; REROY SUPPLIES;
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(CHARTS); COSTS; DESIGN; HIGHWAY
TRANSPORTATION
RVAILABILITY; HTIS

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Technology Center
ADDRESS: Washington, DC 2030†
TITLE: Electric Vehicle Research, Development,
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Information and Analysis, Price Analysis
Division
ADDRESS; Washington, DC 20461
TITLE: Monthly Petroleum Product Price Report

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REYWORDS: PERCLEUM PRODUCTS: PRICES; STATISTICS;
RISTORY; SURVEYS
AVAILABILITY: NTIS

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Tennessee, University of, Transportation Center
ADDRES: Rooxille, TW
TITLE: Institutional Issues in Urban Freight
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1976, December
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TRANSPORTATION; ECONOMIC IMPACT; BENRPIT RISK
ANALYSIS; TABLES (DATA); PLANNING;
IMPOSTRIES; GOVERNMENT POLICIES;
DISTRIBUTION; SERVICES; TRUCKS; PROFITS;
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ADDRESS: Kendall Square Bldg., 236 Haim St.,
Casbridge, NA 02142
PITLE: State Energy Conservation Plans:
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(DATA); GRAPHS (CHARTS); TRANSPORTATION;
PLANKING; STATE GOVERNMENT; GOVERNMENT
FOLICIES; DEMAND (MCONOMICS); PONSCASTING;
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AVAILABILITY: NTIS

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Blectric vehicle Council
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TITLE: Impact of a Puture Population of Electric
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AVAILABILITY: Electric Vehicle Council, 90 Park Ave., New York, NY 10016 \$1.50

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Campbell, E.A.
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ADDRESS: 90 Park avenue, New York, NY 100%
TITLE: Analysis of On-Road Electric Vehicle
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POPER DERAND; REMENT CONSUMPTION
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Consonwealth Drive, Warrendale, PA
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Campbell, K.; Scott, R.; Tolkin, S.
Hichigan, University of, Highway Safety Research
Institute
ADDRESS: Ann Arbor, HI 48105
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SPORSOR: U.S. Dept. of Transportation, Hational
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Judd, D.
Ragle-Picher Industries Inc.
ADDRESS: Joplin, HO
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PENFORMANCE
AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

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Carroll, T.O.; Kydes, A.S.; Sanborn, J.
Brookhaven National Laboratory, National Center for Analysis of Energy Systems, Policy Analysis Division; State University of New York, Institute for Energy Research
ADDRESS: BHI. Upton, NY 11973; SUNY, Stony Brook, NY 11790
FITLE: Land Use - Energy Simulation Hodel: A Computer-Dased Hodel for Exploring Land Use and Energy Relationships

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SPONSOE: Pederal Emergy Administration, Office of
Energy Conservation and Environment
KETWORDS: ENERGY HODELS: COMPUTERIZED SIMULATION;
LAND USE: RESIDENTIAL SECTOR: TRANSPORTATION;
INDUSTRIAL SECTOR: EMERGY DEMAND; REGIONAL AWALYSIS; WEW YORK; SUBURDAY AREAS AVAILABILITY: WTIS

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CONSERVATION: TUSCON (ARIZONA): LONG ISLAND
(NEW TORK): RESIDENTIAL SECTOR: CONNECIAL
SECTOR: INDUSTRIES: TRANSPORTATION: ENERGY
INTENSITY: RESIDENAL ANALYSIS; COMMUNITIES;
TAKES (DATA) TABLES (DATA) AVAILABILITY: HTIS

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Catter, J.C.
Executive Office of the President
ADDRESS: Washington, DC
TITLE: Righway and Transit Programs: !
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Levis Research Center
ADDRESS: Cleveland, OR 48135
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Transportation Energy Conservation
KEYWORDS: LEAD-ACID BATTERIES; SIMULATION;
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COMPUTERIZED SINULATION; REGENERATIVE FUEL
CELLS; FLYWHEELS; LEAD-ACID BATTERIES;
REGEMERATIVE BRAKING; ENERGY STORAGE; EMERGY
CONVERSION; GRAPHS (CHARTS)
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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TITLE: Nethodology for Predicting the Demand for new Electricity-Using Goods

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SPONSOR: Electric Power Research Institute
REYMORDS: ERERGY CONSUMPTION; FORECASTING;
ELECTRIC POWER DENAND; EQUIPMENT; HODELS;
CONSUMERS; HARRET; HEAT POWPS; AUTOROBILES;
ATTITUDES; IMPORTS; PRICES
AVAILABILITY: Electric Power Research Institute,
3812 Hillvier Avenue, Palo Alto, CA 94304

ADDRESS: 1050 Massachusetts Ave., Casbridge, HA 02138
TITLE: Consumer Behavior Toward Fuel Efficient
Vehicles: Literature Review

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1978, January 9

SPONSOR: U.S. Dept. of Transportation, National
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KEYWORDS: BEHAVIOR; COMSUMPRS; AUTOHOBILES;
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TITLE: Price Elasticity Estimates for Transport
Fuel Consumption and Travel Demand: A Review
and Bibliography

1975, June 1975, June
SPONSOR: Federal Energy Administration
REYNORDS: ELASTICITY (ECOMONICS): PUEL
CONSUMPTION; PRICES; GASOLINE; DIESEL FUELS;
JET ENGINE FUELS; TRANSPORTATION; PASSENGER
TRANSPORTATION; RATES (COSTS): CARGO
TRANSPORTATION; ECOMORETRIC MODELS; URBAN
AREAS; AUTOMOBILES; BIBLIOGRAPHIES

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Cambridge, MA 02138; CSI, Cambridge, MA
TITLE: Potential Fuel Conservation Measures by
Motor Carriers in the Intercity Freight
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SPONSON: Pederal Energy Administration, Office of Conservation, Transportation Programs
KEYWORDS: EMERGY COMSERVATION; CARGO
TRANSPORTATION; IMTERSTATE TRANSPORTATION;
GOVERNMENT POLICIES: TRUCKS; EMERGY
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COMMERCE COMMISSION; ECONOMIC ANALYSIS;
TAPLES (NATAL: REGULATIONS; PUBL CONSUMPT) CONTINUE CONTINUENT ECONOMIC ANALYSIS;
TABLES (DATA); REGULATIONS; FUEL CONSUMPT1);
DENAMO (ECONOMICS)
AVAILABILITY: HTIS

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and Evaluation
KETWORDS: PORECASTING: PETROLEUR; IMPORTS: ERERGY SISTEMS; EMERGY MODELS; OPTIMIZATION; CAPITAL; COSTS; ENVIRONMENTAL IMPACT; TABLES (DATA) AVAILABILITY: MTIS

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Charles River Associates Inc.

<126> Chilenskas, A.A.; Bernstein, G.J.; Craae, J.E.A.; Hornstra, F.; Kolba, V.H.; Slawecki, H.A.; Ivins, R.G. Argonne National Laboratory ADDRESS: Argonne, IL TITLE: Design and Testing of Lithius/Iron Sulfide Batteries for Electric Vehicle Propulsios

Paper presented at the Fourth International
Electric Vehicle Symposium (sponsored by the
Electric Vehicle Council and the
International Union of Producers and
Distributors of Electrical Energy), held in
Dusseldorf, Germany, August 31 - September 2,
1976, 21 p.
1976, September
REMORDS: LITRIUM/IRON SULFIDE BATTERIES;
LITRIUM/METAL SULFIDE BATTERIES; ELECTRIC
VEHICLES: REFERENCE, UNESCON: PRESTREE.

VERICLES: RESERRCH: DESIGN: TESTING: PERFORMANCE: DIAGRAMS AVAILABILITY: Blectric Vehicle Council, 90 Park Ave., New York, NT 10016 \$1.50

<127>
Chilenskas, A.A.: Bernstein, G.J.: Ivins, R.O.
Argonne National Laboratory, Chemical Engineering
Division
ADDRESS: 9700 South Cass Avenue, Argonne, IL
60439

TITLE: Lithium Requirements for High-Energy Lithium-Aluminum/Iron Sulfide Batteries for Load-Leveling and Electric-Vehicle Applications

Report No. CONF-760112-3, paper prepared for A Symposium on United States Lithium Resources and Requirements by the Year 2000, Lakewood, Colorado, January 22-24, 1976, 19 p.

SPORSOR: Energy Research and Development Administration, Assistant Administrator for

Administration, Assistant Administrator for Conservation
KPYMORDS: LITHIUM-ALUMINUM/IRON SULFIDE STORAGE; ELECTRIC VEHICLES; EMERGY STORAGE; LOAD HAWAGEBERT: ELECTRIC UTILITIES; DEMAND (ECONOMICS); FOR ECASTING; LITHIUM-ALUMINUM/RETAL SULFIDE BATTERIES AVAILABILITY: NTIS

C128>
Chicqioji, H.H.
Energy Research and Development Administration,
Division of Buildings and Industry
ADDRESS: Washington, DC
TITLE: Roadway Decision-Making and Implications
for Energy Tise - Some Economic Considerations

Paper published in Transportation Research Board Special Report 166, 10-17

RETRORDS: HIGHWAYS; CAPITAL COSTS; EMERGY COMSUMPTION: PRICES; CONSTRUCTION: HARRIALS RVAILABILITY: Mational Academy of Sciences, Mational Research Council, Transportation Research Board, 2101 Constitution Ave. NW, Washington, DC 20418 \$6.00 for TRB Special Report 166 KETWORDS: HIGHWAYS: CAPITAL COSTS: BRERGY

<129>
Ciachette, I.R.
Cianbro Corp.
TITLE: Contractors' View on Optimizing Materials

Paper published in Transportation Research Board Special Peport 166, 29-60

KETFORDS: HIGHWAYS; MATERIALS; RMERGY
CONSUMPTION; CONSTRUCTION; CEMENTS; ASPHALTS;
STANDARDS
AVAILABLITY: Mational Academy of Sciences,
Mational Research Council, Transportation
Research Board, 2101 Constitution Ave. NW,
Washington, DC 2041B \$6.00 for TRB Special
Report 166

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Ciccarone, A.; Antonini, C.; Virgilio, U.
Alfa Roseo Research Dept.
ADDRESS: Italy
TITLE: Fuel Consumption in European Passenger
Cars Powered by Gasoline, Diesel, and Direct
Injection Stratified Charge Engines

Paper presented at the Automobile Engineering Heeting, Dearborn, Hichigan, October 18-22, 1976, 20 p.

1976
RETURNS: FUEL COMSUMPTION: AUTOROBILES;
GASOLINE; DIESEL FUELS; STRATIFIED CHARGE
ENGINES; EUROPE; COMPUTENIZED SINULATION;
COMPARITY E EVALUATIONS; AUTOMOTIVE
ENISTIONS; TABLES (DATA); GRAPHS (CHARTS);
EFFICIENCY; PERFORMANCE
AVAILABILITY: Society of Automotive Engineers
INC., 400 Commonwealth Drive, Warrendale, PA
15096

(137) Civil Aeronautics Board, Bureau of Accounts and Statistics, Economic Evaluation Division ADDRESS: Washington, DC 20828 TITLE: Aircraft operating Cost and Performance Report for Calendar Years 1975 and 1976

Annual report, Volume II, 134 p. Annual report, volume AL, 13- p.
1977, July
KEYNORDS: AIRCRAFT: OPERATING COSTS; PERFORMANCE;
TABLES (DATA); FINANCIAL DATA; STATISTICS;
TRAFFIC; CAPACITY: AIR TRANSPORTATION
AVAILABILITY: GPO, Stock No. 003-006-00073-5

<132> Civil Aeronautics Board, Bureau of Accounts and Statistics, Economic Evaluation Division ADDRESS: Washington, DC 20#28 TITLE: Tuthojet/Tuthofan Aircraft Operating Cost and Performance Trends: Domestic and International Operations of the U.S. Supplemental Air Carriers, Calendar 1963 -Piscal 1975

Supplemental Carrier Jet Trends, 2nd Edition, 45 P.
1976, February
RETURNS: AIRCRAFT; OPERATING COSTS; PERFORMANCE;
OPERATION; HISTORY; STATISTICS; TABLES
(DATA); COSTS; JET AIRCRAFT; AIR
TRANSPORTATION

<133> Civil Aeronautics Board, Bureau of Accounts and Statistics, Economic Evaluation Division ADDRESS: Washington, DC 20428 TITLE: Airline Equipment Reeds and Financing Through 1985

46 p.
1976, Hovember
KEYWORDS: AIR TRANSPORTATION; EQUIPMENT;
FORECASTING; PINANCING; TRAFFIC; CAPACITY;

<133> <133> COFT. TABLES (DATA); AIRCRAFT; COSTS; CAPITAL

<139> Civil Aeronautics Board, Bureau of Accounts and Statistics, Statistical Data Division ADDRESS: Washington, DC 20428 TITLE: Commuter Air Carrier Traffic Statistics: 12 Honths Ended June 30, 1977

Annual Report, 40 p. Annual Report, 40 p.
1977, Howenber
KETWOPDS: COMMUTERS; AIRCRAFT; TRAFFIC;
STATISTICS; AIR TRANSPORTATION; TABLES
(DATA); PASSENGRE TRANSPORTATION; CAEGO
TRANSPORTATION; AIRPORTS

<135> Civil Aeronautics Board, Bureau of Accounts and Statistics, Statistical Data Division, Financial and Traffic Data Section ADDRSS: Washington, DC TITLE: Truck Carriers—Coach Class: Traffic, Revenue, Yield, Emplanements and Average On-Flight Trip Length by Fare Category (48 State Basis)

Ronthly publication, formerly titled "Coach Traffic, Revenue, Yield and Average On-Flight Trip Length by Pare Category for the 48-State Operations of the Domestic Trunks", v.p. Bonthly RETWORDS: TRAFFIC; REVENUE; REGIONAL ANALYSIS; TABLES (DATA); PASSENGER EMPLANEMENTS

<136> Civil Aeronautics Board, Bureau of Operating Rights, Standards Division ADDRESS: Washington, DC 20428 TITLE: A Profile of Airline Service in the 48 Contiguous States, June 1, 1975

1977, June 1
RETTORDS: AIR TRANSPORTATION: TABLES (DATA);
REGIORAL ANALYSIS: SERVICES; AIRCRAFT;
PASSEMBER TRANSPORTATION: POPTLATION
(STATISTICS): URBAN AREAS; STATISTICS;
PASSANGER EMPLAMENTS

<137>
Civil Aeronautics Board, Bureau of Operating Rights, Standards Division ADDRESS: Washington, DC 20428
TITLE: Local Service Carriers Passengers Emplanements: Fiscal Years 1976 and 1975

83 p.
1977, July
RETWOODS: PASSENGER EMPLANEMENTS; PASSENGER
TRANSPORTATION; ATRPORTS; ATRCRAFT;
STATISTICS; TABLES (DATA); REGIONAL ANALYSIS;
SERVICES

(138) Civil Aeronautics Board, Bureau of Operating Fights, Standards Division APPRES: Fashington, DC 20428 TITLE: Trunkline Carrier Domestic Passenger Emplanements: Fiscal Years 1976 and 1975

95 p.
1977; August
KRYNORDS: AIRPORTS; PASSENGER TRANSPORTATION; AIR
TRANSPORTATION; REGIONAL ANALYSIS;
STATISTICS; TABLES (DATA); PASSENGER
EMPLANEMENTS; SERVICES

<139> Civil leronautics Board, Pinancial and Traffic Data Section: U.S. Dept. of Transportation, Federal Aviation Administration, Office of

Pederal Aviation Administration, Office of Hanagement Systems
ADDRESS: CAB, 1825 Connecticut Ave. #W, Washington, DC 20428; DOT/PAA, 800 Independence Ave. SW, Washington, DC 20591 TITE: Airport Activity Statistics of Certified Boute Air Carriers for 12 Months Ended December 31, 1976

Semi-annual report, Report No. AD/A-046953, 307 p. Seal-annual reput, apport at apport at 1976, December 31
REYWORDS: STATISTICS; AIRCRAFT; AIRPOPTS; TABLES
(DATA): SCHEDULING; PASSENGER TRANSPORTATION;
CARGO TRANSPORTATION; AIR TRANSPORTATION;
STATE ANALYSIS; PASSENGER EMPLANEMENTS AVAILABILITY: NTIS

<140> Clark, J.W.
Washington, University of, Urban Transportation
Program
ADDRESS: Seattle, WA 98105
TITLE: Directing the Evolution of Urban Land Use
to Achieve Improved Transportation System
Performance

Paper preented at the 54th Annual Heeting of the Transportation Research Board, published in Transportation Research Record 565, 61-74

SPONSOR: Mational Academy of Sciences, Transportation Research Board KEYWORDS: GROWTH; URBAN AREAS; TRAVEL; POPULATION GROWTH; FORECASTING; MASHINGTON; EMPLOYMENT;

GROSTH; FORECASTING; MASENGTON; EMPLOYMENT; TRANSPORTATION SYSTRAS; PEPFORMANCE; COMPUTERIZED SIMULATION AVAILABILITY: National Academy of Sciences, Transportation Research Board, 2101 Constitution Ave. NW, Washington, DC 20418 \$6.00 for Transportation Research Record No.

<181> Clark, H. (ed.) National Academy of Sciences, National Research Council, Transportation Research Board, Commission on Sociotechnical Systems ADDRESS: 2101 Constitution Avenue RW, Fashington,

DC
TITLE: Strategies for Reducing Gasoline
Consumption Through Emproved Motor Vehicle
Efficiency. A Report of an Informal
Transportation Research Board Workshop

Transportation Research Board Special Report 169, proceedings of a workshop sponsored and conducted by the Transportation Research Board Committee on Energy Conservation and Transportation Demand, Washington, DC, October 7-8, 1975, 55 p.

1975

1975
SPONSOR: Pederal Energy Administration; U.S.
Dept. of Transportation, Transportation
Systems Conter
RETWORDS: GASOLINE; CONSUMPTION; VEHICLES;
EPPICIENCY; AUTONOBILES; SALES; FUEL
CONSUMPTION; HARRET; ERRORI CONSERVATION;
FORECASTING; DEBAND (ECONOMICS); SPEED

<161> CONT. LINITS; VELOCITY; SAPETY; AUTONOTIVE WHISSIONS; FUEL ECONOMY; TAXES; BLECTRIC VEHICLES
AVAILABILITY: \$2,40

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Clark, M. (ed.)
Mational Academy of Sciences, Mational Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. MW, Washington,
DC 20418
TITLE: Optimizing the Use of Materials and Energy
in Transportation Construction

Transportation Research Board Special Report 166, proceedings of a conference held November 12-14, 1975, 74 p.

1976
SPONSOR: U.S. Dept. of Transportation, Pederal Highway Administration; Pederal Energy Administration; Brergy Research and Development Administration
ESPORDS: EMERGY CONSUMPTION; TRANSPORTATION; CONSTRUCTION; HIGHWAYS; HATERIALS; EMERGY CONSERVATION; ASPRALTS; SULFOR; CHEWYS; FORECASTING; EMERGY SHORTAGES; PETROLEUN; GRAPTS (CHARTS); COSTS
AVAILABILITY: \$6.00

<143> Clark, H. (ed.)
Fational Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Cosmittation Rvenue, Washington, DC
20418 TITLE: Transportation System Management

Transportation Research Board Special Report 172, proceedings of a conference held November 7-10, 1976, 167 p.

1977
SPORSOR: U.S. Dept. of Transportation, Urban Hass
Transportation Administration; U.S. Dept. of
Transportation, Federal Highesy
Administration; Institute of Transportation

Engineers
KETWORDS: TRAFFIC CONTROL: PARKING: TRANSPORTATION: APTOMOBILE OCCUPANCY; GOVERNBENT POLICIES; CABGO TRANSPORTATION; PLANNING; US DOT; REGULATIONS; URBAN AREAS; AUTOMOBILES; PASSENGER TRANSPORTATION; PUBLIC OPINION AVAILABILITY: \$6.80

<144> Clark, F. (ed.)
Rational Academy of Sciences, Mational Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue NW, Washington, 2081R TITLE: Dual-Hode Transportation

Transportation Research Board Special Report 170, proceedings of a conference conducted by the Transportation Research Board, Hay 29-31, 1974, 164 p.

1976 1976
RETWORDS: PUBLIC TRANSPORTATION: DUAL-HODE BUS
SYSTERS; SCHEDULING; RIGHT-OF-WAY; URBAN
TRANSPORTATION; BUSES (VEHICLES); TRANSIT
STATIONS; TRAPPIC CONTROL; HAINTEWANCE;
CAPACTTY; SAPETT; AUTOHATED GUIDEWAY TRANSIT
AVAILABILITY; \$6.40

<145> Clark, M. (ed.)
Rational Academy of Sciences, Mational Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. MW, Rashington,
DC 20418
TITLE: Urban Transportation Alternatives:
Evolution of Federal Policy Transportation Research Board Special Report 177, report of conferences held February 23-26, 1975, at Airlie House, Yirginia, and Harch 29-April 1, 1976, at Hunt Valley, Haryland,

1977
SPONSOR: U.S. Dept. of Transportation, Urban Hase Transportation Administration REYNORDS: GOVERNMENT POLICIES: URBAN TRANSPORTATION; US DOT: FUNDING: PLANNING: CONFERENCES: CONSTRUCTION; PINANCING AVAILABILITY: \$2.00

<146> <!se>Clarkey, A.
Energy Research Corp.
ADDRESS: Danbury, CT
TITLE: Development of Large Size Wickel-Zinc
Cells for Electric Vehicles

Paper presented at the Fourth International
Electric vehicle Sysposius (sponsored by the
Electric vehicle Council and the
International Union of Producers and
Distributors of Electrical Energy), held in
Dusseldorf, Germany, lugust 31 - September 2,
1976, 16 p.
1976, September
REMONDS: MICREL-ZINC BATTERIES; ELECTRIC
WHICLES: RESEARCH: RIECTRODES; ELECTROLYTES;
PERFORMANCE; BATTERY SEPARATORS
AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

<147>
Cockle, G.R. (ed).; Houser, F.N. (ed.); Roch,
E.N. (ed.)
Association of American Railroade, Hechanical
Division
ADDRESS: Washington, DC
TITLE: Car and Locomotive Cyclopedia of American
Practices

Third Edition, v.p. 1974
REYNORDS: RAILROAD CARS; RAIL TRANSPORTATION;
LOCOMOTIVES; DESIGN; CARGO TRANSPORTATION;
PASSENGER TRANSPORTATION; EQUIPMENT; DIESEL
BROINES; SAFETT; HAINTHARCE; PHOTOGRAPES;
DIAGRAMS; MANUFACTURERS
AVAILABILITY; SIRROMS-BOATCHARN
350 Broadway, New York, NY 10013

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Cohen, G.S.; Bribaum, H.S.; Hartgen, D.T.
Hew York State Dept. of Transportation, Planning and Research Bureau, Planning Research Unit ADDRESS: Albany, NY 12232
TITLE: Intercity Rail Patronege in the HYC Buffalo Corridor: Hodels and Forecasts.

Final Report, Report No. DOT/RSPD/DPB/50-77-7, Yolume 3 of 3, 107 p. 1977, Hay SPONSOR: U.S. Dept. of Transportation, Office of University Research

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REPHORDS: INTERCITY TRANSPORTATION; NEW YORK
 CITY; BUFFALO (NEW YORK); HODELS;
 FORECASTING; COMPRITION; AIR TRANSPORTATION;
 AUTOMOSILES; BUSES (VEHICLES); BLASTICITY
 (BCOMONICS); DERAND (ECONOMICS);
 TRANSPORTATION RODE CHOICE; TABLES (DATA);
 GRAPHS (CHARTS)

<149>
Cohen, S.B.
Wyle Laboratories
ADDRESS: P.O. Box 1008, Huntsville, AL 3580
TITLE: Regulatory Effectiveness Hethodology.
Phase I Research 35807

Report No. ADA-036579, CG-D 7-77, MSR 76-42, 93 p. 1976. July 1976, July
SPONSOR: U.S. Dept. of Transportation, Coast
Guard, Office of Research and Development
RETHORDS: REGULATIONS; RECREATION VEHICLES; BOATS; SAFETY; HODELS; FORECASTING AVAILABILITY: HTIS

< 150 > C1507 Colello, R.G. U.S. Dept. of Transportation, Transportation Systems Center ADDRESS: Rendall Square, Casbridge, HA 02142 TITLE: Automobile Drivelines

Report No. DOT-TSC-0ST-77-34, 56 p.
1977, Hay
SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and
Technology; U.S. Dept. of Transportation,
Transportation Systems Center
KEYHORDS: AUTOHOBILS TRANSHISSIONS; FUEL ECOHOHY;
AUTOHOBILS: ACCELERATION; AUTOHOTUS
ENISSIONS: COMPUTERIZED SIMULATION;
PERFORRANCE; FUEL COMSUMPTIOE; GRAPHS
(CHARTS); DIAGRAMS
AVAILABILITY: MTIS

<151> (15)> Coleman, W.T., Jr. U.S. Dept. of Transportation, Office of the Secretary ADDRESS: Mashington, DC 20590 TITLE: A Progress Report: Implementation of the 1975 Statement of Mational Transportation Policy

23 p.
1976, September 17
REYWORDS: TRANSPORTATION; GOVERNMENT POLICIES;
REGULATIONS; ENERGY CONSERVATION; SUBSIDIES;
RAIL TRANSPORTATION; ATE TRANSPORTATION;
URBAN TRANSPORTATION; COAL; PETROLEUR;
SAFETY; ENVIRONMENTAL IMPACT

<152>
Collins, H.H.: Carriere, W.H.
General Pesearch Corp.
ADDRESS: P.O. Box 3587, Santa Barbara, CA 93105
TITLE: Energy Impacts of Electric Cars

Releasable Memorandum, Report Wo. RM-2101, 47 p. Releasable Resorandam, Report So. MH-2101, 47 y. 1976, January
1976, January
1976, January
1976, St. S. Dept. of Energy
REYMORDS: ELECTRIC VERICLES; FORECASTING; EMERGY
CONSUMPTION; PETFOLEMS; AUTOMOBILES; RODELS;
ELECTRIC POWER GENERATION; BATTERY CHARGING; GRAPHS (CHARTS); ELECTRIC POWER DEMAND; REGIONAL ANALYSIS; TABLES (DATA)

<153> C153> Control Data Corp.; Wells Research Co. ADDRESS: CDC, 607 Valleybrook Drive, Silver Spring, HD 20904; WRC, 6003 Executive Blvd., Rockville, HD TITLE: Trends in Bus Transit Operations: 1960-1974

Report No. PB-266748, DOT-TPI-10-77-14, 134 p.
1977, January
SPOMSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Policy, Plans, and
International Affairs: U.S. Dept. of
Transportation, Urban Hass Transportation
Adainistration
KEYHORDS: BOSES (VEHICLES): TABLES (DATA): GRAPHS
(CHARTS): COSTS: URBAN TRANSPORTATION: FUEL
CONSUMPTION: UTILIZATION: PUBLIC
TRANSPORTATION: FINANCIAL DATA; PASSENGER
TRANSPORTATION: REVENUE: EMPLOYMENT: HISTORY;
SERVICES Report No. PB-266748, DOT-TPI-10-77-14, 134 p.

AVAILABILITY: NTIS

<154> Cook, J.A.; Fucinari, C.A.; Lingscheit, J.W.; Rahnke, C.J. Ford Motor Co. rord Motor Co. ADDRESS: Dearborn, HI TITLE: Automotive Gas Turbine Ceramic Regenerator Design and Reliability Program. Final Annual Report for Period July 1, 1975 to September 30, 1976

Report No. COO-2630-18, 299 p.
1976, October
SPONSOR: Emergy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYNORDS: STIRLING ENGINES; HEAT EXCHANGERS;
COSTS: PERFORMANCE; REGENERATORS; GAS TURBINE
ENGINES; DIAGRAMS; GRAPRS (CHARTS); TABLES
(DATA); STRESS AWALTSIS; THERMODYNAMICS
AVAILABILITY: NTIS

Cooper, J.F.; Borg, I.T.; O'Connell, L.G.; Behrin, R.; Rubin, B.; Wiesner, H. Lawrence Livermore Laboratory ADDRESS: University of California, Livermore, CA 94550 TITLE: Lithium Requirements for Electric Vehicles Using Lithium-Water-Air Batteries Report No. UCRL-77440, COMP-760112-2, paper prepared for the Symposium on United States Lithium Resources and Requirements by the Year 2000, January 22-24, 1976, Lakewood, Colorado, 18 p.
1975, November 12
SPONSOR: Energy Research and Development Administration
RETWORDS: ELECTRIC VEHICLES; LITHIUM-WATER-AIR RETERRIES; DEMAND

BATTERIES; LITHIUM; BATTERIES; DEMAND (ECONOMICS); PORECASTING AVAILABILITY: HTIS

Corrigan, R.; Rirachten, J.D.; Samuelson, R.J. TITLE: The Carter Energy Plan - Some Answers to the Questions

<156> COWT. Wational Journal, 710-12 (May 7, 1977) Wational Journal, 710-12 (may ', '>'', '1977, Hay 7
REYMORDS: WATIOWAL EMERGY PLAM; EMERGY POLICY;
EMERGY CONSERVATION; FUEL CONSUMPTION;
PESIDENTIAL SECTOR; INDUSTRIAL SECTOR;
INCEMTIVES; ECONOMIC IMPACT; PETROLEUM;
WATURAL GAS; AUTOMOBILES; TRAMSPORTATION;
PRICES

<1575 <\sty><\sty>
Corsi, T.H.: Harvey, H.E.
Maryland, University of, College of Business and
Management; Kent State University
ADDRESS: NU, College Park, HD; KSU, Kent, Ohio
44280 TITLE: Travel Behavior Under Increases in

Traffic Quarterly, XXXI(4), 605-624 Trattic Qualitatif, Analys, of 5-1977, October REYWORDS: TRAYEL; BERNYIDE; GASOLINE; PRICES; TABLES (DATA); SOCIO-ECONOMIC FACTORS; ATTITUDES; QUESTIONNAIRES; SURVEYS; INCOME; WISCONSIN; GOVERNMENT POLICIES; ALLOCATIONS

Gasoline Prices

<158> Crain Automotive Group Inc.
ADDRESS: 965 East Jefferson Avenue, Detroit, HI
48207 TITLE: Automotive News

weekly publication, v.p. KETWOODS: AUTOHOBILES; ENGINES; DIESEL ENGINES; OVDS: AUTOHOBILES; ENGINES; DLESEL BEGINES
HABUFACTURERS; PUEL ECURORI; PRODUCTION;
VANS; TRUCKS; COBSUMERS; TIRES; ELECTRIC
VERSICLES; PUEL OIL; EMISSIONS; AUTOHOTIVE
TANSHISSIONS; ROAD TESTS; SALES; IMPORTS;
EIPORTS; COSTS; TIRES; BUSES (VEHICLES);
PRICES; AUTOMOTIVE INDUSTRY; INTERNATIONAL
ANALYSIS; PHOTOGRAPHS; DESIGN; ADVERTISING

<159>

Paper presented at the Fourth International
Electric vehicle Symposium, held in
Dusseldorf, Germany, August 31 - September 2,
1976, 28 p.
1976, September
KETWORDS: ELECTRIC VEHICLES: TRUCKS; EMERGY
CONSERVATION; AUTOHOTIVE FLEETS; AIR QUALITY;
DEVELOPMENT; CUPERTIMO (CALIFORMIA); COSTS;
AUTOHOTIVE ENISSIONS; TABLES (DATA);
COMPARATIVE EVALUATIONS; GRAPPS (CHARTS);
FYEL CONSUMPTION; FUEL ECONOMY; POSTAL SERVICE
AVAILABILITY: Electric vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

<160> C1807 Crier, F.S. Washington Center for Hetropolitan Studies ADDRESS: 1717 Hassachusetts Avenue NW, Washington, DC 20036 TITLE: "The Energy Crisis and Low-Income Assericans: An Analysis of Impact and Options

171 p. 1977, June

SPONSOR: Community Services Administration
RETWORDS: INCORE; LOW INCOME GROUPS; COSTS;
SOCIO-ECOMONIC FACTORS; EMERGY COMSUMPTION;
RESIDENTIAL SECTOR; BEHAVIOR; EMERGY
CONSERVATION; TRANSPORTATION; MOUSTING; SPACE
HEATING; AUTOMOBILES; TABLES (DATA); SURVEYS;
FUEL CONSUMPTION; EMERGY SHORTAGES

<161> Cuffe, R.W.
Jeneral Rotors Corp., Harrison Radiator Division
ADDRESS: Lockport, NY
TYTLE: Air Conditioning and Heating Systems for

Report No. SAE/SP-78/425, 44 p. 1978 RETWORDS: TRUCKS; AIR CONDITIONING; DESIGN;
PERFORMANCE; HUMAN COMFORT; ENGINEERING;
THERMAL COMFORT; DIAGRAMS; GRAPES (CHARTS)
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<162> (102)
American Society of Planning Officials
ADDRESS: Chicago, IL
TITLE: Land Use and the Environment ~ An
Anthology of Readings

207 p. SPOMSOR: U.S. Environmental Protection Agency, Office of Research and Monitoring, Environmental Studies Division ENVICONMENTAL Studies Division KEYWORDS: LAND USE; ENVIRONMENTAL QUALITY; AIR POLLUTION; GOVERNMENT POLICIES; INCENTIVES; URBAN AREAS; HISTORY; TABLES (DATA); RECREATION; NOISE (SOUND); FORECASTING; LAND DEVELOPMENT; ENVIRONMENTAL IMPACT

<163> Cyrus, J.D.
Sandia Laboratories
ADDRESS: Albuquerque, NM 87115; Livermore, CA
94550 TITLE: Proceedings of the Hybrid Vehicle Interest and Capability Assessment Workshop

Report No. SAND 76-0645, conference held
September 22-23, 1976, Albuquerque, New
Hexico, 40 p.
1977, Harch
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Emergy Conservation
KEYWORDS: HYBRID ELECTRIC-POMPRED VEHICLES;
COMPERENCES; HEAT ENGINES; SYSTEMS ANALYSIS;
STORAGE; AUTOHOTIVE CONTROL SYSTEMS
AVAILABILITY: HTIS

<164>
Dajani, J.S.: Stortstrom, R.G.: Warner, D.B.
Duke University, School of Engineering, Dept. of
 Civil Engineering: Duke University, Duke
 Environmental Center
ADDRESS: Durham, NC
TITLE: The Potential for Helicopter Passenger
 Service in Rajor Urban Areas

Report No. N77-27087, NASA-CR-145224, 95 p. 1977, Harch SPONSOR: Mational Aeronautics and Space Administration, Langley Research Center

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<170>

<164>
<165 CORT.
RETVORDS: RELICOPTERS; AIR TRANSPORTATION;
CORPOTRELED SIRULATION; COSTS; TABLES
(DATA): REGIONAL AWALYSIS: URBAN AREAS;
INTERCITY TRANSPORTATION; PASSENGER
TRANSPORTATION; AIRPORTS; URBAN TRANSPORTATION
AVAILABILITY: BYIS</p>

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Data Resources Inc.
ADDRESS: Lexington, HA
TITLE: A Study of the Demand for Gasoline
Final Report, Report No. PB-235254, 146 p.
1974, July
SPOMSOR: Executive Office of the President,
Council on Environmental Quality; U.S.
Environmental Protection Agency
KEYWORDS: GASOLINE: PRICES: FUEL CONSUMPTION:
DEMAND (ECONOMICS): TAXES: YERICLES: GROSS
WATIOWAL PRODUCT: INCOME: ECONOMETRIC MODELS:
FORECASTING: AUTOMOBILES: TABLES (DATA):
ELASTICITY (ECONOMICS): ECOMOMIC IMPACT
AVAILABILITY: HTIS

<1660
Davis, D.D.: O'Connell, L.G.: Warner, S.E.:
 Faynard, A.E.: Rowlett, B.H.
Lawrence Liveracre Laboratory: Airesearch
 Manufacturing Co.
ADDRESS: LLL, Berkeley, CA
TITLE: Battery-Flywheel Hybrid Electric Power
 System for Wear Term Application. Volume 1:
 System Description Volume 2: System Design
Informal Report, Report No. UCID-17098, 52 pages
 for Volume 1, 81 pages for Volume 2:
1976, April 15
SPONSOR: Banery Research and Development
 Administration
REWORDS: TRANSPORTATION: BATTERIES; FLYWHEELS;
 HYBRID ELECTRIC—POWNERD VRHICLES; EMERGY
 COMSUMPTION; ALTERNATE PUBLS; ELECTRIC
 VENICLES; LEAD-ACTO BATTERIES; PERFORMANCE;
 PETROLEUM; BERROT DEHAND; DESIGN; BLECTRIC
 VENICLES; HERROT DEHAND; DESIGN; BLECTRIC</pre>

C167>
Davis, D.D.; Renner, R.A.; Younger, P.C.; Epps,
R.C.; Lerner, S.S.
Lavrence Liversore Laboratory
ADDRESS: University of California, P.O. Box 808,
Livernore, CA 98550
TITLE: Determined on the Effectiveness and
Peasibility of Regenerative Braking Systems
on Riectric and Other Automobiles. Volume I
- Susmary
Report No. UCRL-52306/1, 74 p.
1977, September 9
SPOMSOR: Emergy Research and Development
Administration, Division of Transportation
Energy Conservation
RETWORDS: Electric Vehicles; HUBBID
ELECTRIC-POWERED VEHICLES; HUBBID
ELECTRIC-POWERED VEHICLES; HUBBID
ENERGY CONSERVATION; ENCOVERS; UTILIZATION;
FLYWISSIS; POWER TRAIN STYTERS; DIAGRAMS;
BATTERIES; TABLES (DATA); GRAPHS (CHARTS);
COSTS; FRASIBILITY
AVAILABILITY; HTIS

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Davie, b.B.; Renner, R.A.; Tounger, F.C.; Epps,

R.C.; Lerner, S.S.
Lawrence Liversore Laboratory
ADDRESS: University of California, Liversore, CA
9A550

FITLE: Determination of the Effectiveness and
Fessibility of Regenerative Braking Systems
on Electric and Other Automobiles. Volume
II: Design Study and Analysis

Report No. UCRL-52306/2, v.p.
1977, September 9

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation

KEYWORDS: AUTOMOBILES: EMERGY STORAGE;
TECHNOLOGY: ELECTRIC VEHICLES: EEGSHERATIVE
BRAKING: HISTORY; DEVELOPMENT; TESTING;
TRANSPORTATION; COST ANALISIS: TABLES (DATA);
PATENTS: RIBRID ELECTRIC-POWERED VEHICLES:
EMERGY COMSERVATION; BATTERIES

AVAILABILITY: NTIS

Davis, F.W.; Burkhalter, D.A.
TITLE: Vanpooling Institutional Barriers

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1978, Hay
SPONSOR: U.S. Dept. of Energy, Assistant
Secretary for Conservation and Solar
Applications, Transportation Programs Office
KHYORDS: INSTITUTIONAL FACTORS; REGULATIONS;
VANPOOLS; LIABILITIES; INSURANCE; TAXES;
OPERATION; GOVERNMENT POLICIES; LEGAL
ASPECTS; STATE ANALYSIS
AVAILABILITY: GPO, Stock No. 061-000-00085-2

Davis, F.W., Jr.; Oen, K.
Tennessee, University of, Transportation Center
ADDRESS: Knoxville, TH 37916
TITLE: Solving Public Passenger Transportation
Problems: A Need for Policy Reorientation.
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DOT-TST-77-35, 26 p.
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the Secretary, Office of University Research
RETMORDS: PASSENGER TRANSPORTATION; URBAH
TRANSPORTATION: DEVELOPHERT; GOVERNEET
POLICIES: TAXICABS: BUSES (VEHICLES);
AUTOMOTITY PLEETS; PUBLIC TRANSPORTATION;
CONSUMERS
AVAILABILITY: NITS

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SPONSOR: J.S. Dept. of Transportation, Office of
the Secretary, Office of University Research
KEYMORDS: DESIGN: URBAN TRANSPORTATION; HASS
TRAPSPOPTATION; BUILDINGS; TRANSIT STATIONS

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Dennis, A.W.; Poley, J.T., Jr.; Hartman, W.P.;
Larson, D.W.
Sandia Laboratories
ADDRESS: Albuqueque, MH 87185
TITLE: Severities of Transportation Accidents
Involving Large Packages

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1978, May
SPONSOR: U.S. Dept. of Energy, Division of
Thytonmental Technology
RETHORDS: TRANSPORTATION; ACCIDENTS; CONTAINERS;
HAZATOS; FIRE; RALL TRANSPORTATION; TRUCKS;
AUTOMOBILES; WEIGHT; TABLES (DATA)
AVAILABILITY: HTIS

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TITLE: Forecasts of Commuter Airlines Activity Peport Ho. FAR-AFP-77-28, 139 p. 1977. July

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SPONSOR: U.S. Dept. of Transportation, Pederal
Aviation Administration, Office of Aviation AVAILABLE AVAILABLE TO AVAILABLE AVAILABLETT EVALUATION AVAILABLETT AVAILABLETT EVALUATION AVAILABLETT.

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RETPORDS: TIRES: PRICTION: WEAR: ROADS: SURFACES:
PUBL SCONONY: TESTING: PERFORMANCE: MATERIALS
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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DeWolf, J.B.; Davis, C.; Heinemann, P.C.
Charles Stark Draper Laboratory Inc.
ADDRESS: 68 Albany Street, Cambridge, fil 02139
TITLE: Computer-Based Resource Accounting Hodel
for Automobile Technology Impact Assessment

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SPOMSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and
Technology; U.S. Dept. of Transportation,
Transportation Systems Center
KEYWORDS: MODELS; AUTOHOBILES; TECHNOLOGY
ASSESSEERT; RESOURCES; NATERIALS; EMERGY
DEMAND; COMPUTERIZED SIMULATION; IMPUT-OUTPUT
AWALYSIS; LABOR ESTIMATES; CAPITAL; DEMAND
(ECONOMICS); TABLES (DATA); HAMPOWER
AVAILABILITY: NTIS

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Report Mo. N76-33626, MASA-TT-F-17227, 27 p: Translated from Bosch Technische Berichte, 2(5), 211-219 1976, September SPONSOR: Mational Aeronautics and Space Administration RETHORDS: BATTERIES: ELECTRIC VEHICLES: FUEL CELLS: RESEARCH: PERFORMANCE AVAILABILITY: RTIS

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Brookhaven National Laboratory, National Center for Analysis of Energy Systems, Technology Assessment Group
ADDRESS: Upton, NT 11973
TITLE: Ispact of Selected Energy Conservation
Technologies on Baseline Demands

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RETHORDS: REGIONAL ANALYSIS; EMERGY CONSUMPTION;
TABLES (DATA); EMERGY COMSERVATION; COST
EFFECTIVENESS; TECHNOLOGY; STANDARDS; MODBLS;
RESIDENTIAL SECTOR; COMPRECIAL SECTOR;
FORECASTING; INDUSTRIAL SECTOR; TEAMSPORTATION
AVAILABILITY: RTIS

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Doggett, R.W.: Heyer, R.
International Research and Technology Corp.
ADDRESS: 7655 Old Springhouse Road, Holean, VA
22 101
TITLE: The Transportation Energy Conservation
Betwork (TECNET): A Summary Description

Report No. IRT-19900/1, 35 p.
1970, March 14
SPONSOR: Oak Ridge National Laboratory, Energy
Division, Data Hanagement and Analysis Group
RETWORDS: TRANSPORTATION; EMERGY CONSERVATION;
DENAND (ECONOMICS); EMERGY CONSUMPTION;
ENTEROPMENTAL IMPACT; ECONOMIC IMPACT; TABLES
(DATA); MODELS; GOVERNMENT POLICIES;
SINULATION; MATERIALS; TRANSPORTATION

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Doggett, R.H.; Heyer, R.; Heller, H.
International Research and Technology Corp.
ADDRESS: 7655 Old Springhouse Rd.; McLean, VA
22101

IITLE: Ten Scenaios of Transportation Energy
Conservation Using TECHET

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1978, June
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Data
Analysis Branch
KEYWORDS: FORECASTING: HODELS: TRANSPORTATION:
GASOLINE: RATIONING: ENERGY CONSERVATION:
AUTOHOTIVE ENGINES: BRATTON CYCLE: STIRLING
ENGINES: INTERNAL CONSUSTION ENGINES:
ECOROMIC IMPACT: ENERGY INTENSITY: MARKET:
ZWERGY CONSUMPTION: AUTOHOBILES: GROWTH:
YERICLE HILES TRAVELED: GROSS NATIONAL
PRODUCT: RILEAGE: TABLES (DATA)

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RETFORDS: FUEL ECONOMY: AUTOMOTIVE EMISSION
COMPPOL: AUTOMOTIVE EMCINES: FUEL
COMSUMPTION: DESIGN: TESTING: GRAPHS
(CHARTS): CATALITIC CONVENTERS
AVAILABILITY: Society of Automotive Engineers
INC., 800 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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Denselly, J.J., Jr.; Roessler, W.U.
Aerospace Corp., Environment and Energy
Conservation Division, Hobile Systems Group,
Office of Energy Conservation
TITE: Fuel Consention and Engine Horsepower
Projections for the Highway Transportation
Sector

79 p.
1978, April 28
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Office of
Highway Systems, Heat Engine Systems Branch
KETWORDS: PUBL COMSUMPTION: HIGHWAY
TRANSPORTATION; AUTOMOBILES: TRUCKS; BUSSS
(VERICLES); NOTORCICLES; HILBAGE; ENGINES;

SALES; PORECASTING; WEIGHT; CLASSIFICATIONS: TABLES (DATA); SIZE; FUEL ECONOMY

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Donovan, Rahester and Rattien Inc.
ADDRESS: 1055 Thomas Jefferson it., Suite 414,
Washington, DC 20007
TITLE: Energy, the Environment and Land Use:
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Report No. UCRL-13710(Pt. 1), 190 p.
1976, November 5
SPONSOR: Lawrence Liveracre Laboratory, Office of
Environmental Policy
KEYWORDS: BIBLIOGRAPHIES; EMERGY SUPPLIES; COAL;
BUCLEAR EMERGY; PETROLEUM; NATURAL GAS;
ALTERNATE FUELS; ELECTRIC POWER GMERRATION;
EMERGY COMSUMPTION; REMEGY CONSEPVATION;
RESIDENTIAL SECTOR; COMMERCIAL SECTOR;
TRANSPORTATION; ACRICULTURE; LAND USE;
EMYTPOMMENTAL IMPACT
AVAILABILITY: MTIS

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Donovan, Ramester and Rattien Inc.
ADDRESS: 1055 Thomas Jefferson St., Suite 414,
Washington, DC 20007
TITLE: Energy, the Environment, and Land Use.
Final Report

Report No. UCRL-13710(Pt. 2), 151 p.
1976, Rovember 5
SPONSOR: Lawrence Livernore Laboratory, Office of Environmental Policy
RETURDS: LAND USE; ENVIRONMENTAL IMPACT; EMERGY CONSERVATION; EMERGY CONSERVATION; EMERGY CONSERVATION; POLIUTION; ECOMONIC ANALYSIS; SITE SELECTION; COAL; PETROLEUN; TRANSPORTATION; PRODUCTION; NUCLEAR EMERGY; WASTE DISPOSAL AVAILABILITY: NTIS

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Duffy, R.A.; Eiden, G.L.; Hamilton, C.W.; Drago,
 V.J.
Battelle Columbus Laboratories
ADDRESS: 505 King Avenue, Columbus, OH 43201
TITLE: General Aviation Dynamics: An Extension
 of the Cost Impact Study to Include
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 Aviation Activity. Volumes I-IV

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Dupree, H.G., Jr.
U.S. Dept. of Interior, Bureau of Hines, Division of Interfuels Studies
ADDRESS: Washington, DC 20281
TITLE: Energy Consumption in the Transportation Sector

Paper presented at the Pourth National Conference on the "Effects of Energy Constraints on AD-A080 405 OAK RIDGE NATIONAL LAB TENN
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DISTILLATES; FORL OIL; RESIDUAL OILS; TABLES
(DATA); GRAPRS (CHARTS); REGIONAL AWALYSIS

Emport No. COMS/1011-21, WASA TH-73850, paper presented at the 1978 SAE Congress, Detroit, Michigan, February 27 - Harch 3, 1978, 24 p. 1978
SPOMSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation FETWORDS: ELECTRIC VEHICLES, TESTING; HYBRID ELECTRIC-POWERED VEHICLES; RESEMEPATIVE BRAKING; EMERGY CONSUMPTION; TABLES (DATA); GRAPRS (CHARTS): FUEL CONSUMPTION; PERFORMANCE

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Ebersole, M.; Rubin, D.; Darling, E.; Englander, I.; Frenkel, L.; Meyerhoff, M.; Prerau, D.; Schaeffer, K.H.; Morrison, J.
7.S. Dept. of Transportation, Transportation Systems Center
ADDRESS: Kendall Square, Cambridge, MA 02142
TITLE: The Maylight Saving Time Study.
Executive Summary - Final Report on the Operation and Effects of Daylight Saving Time

26 p.
1975, July
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the Secretary, Office of the Assistant
Secretary for Policy, Plans and International
Affairs, Office of Transportation Energy
Policy
REYWORDS: EMERGY CONSERVATION; LEGISLATION;

POLICY
RETWORDS: EMERGY CONSERVATION; LEGISLATION;
SAFFTY: TRAVEL; DAYLIGHT SAVING TIME;
TRANSPORTATION; ELECTRIC POWER; PUBLIC
OPINION; CRIME; GOVERNMENT POLICIES;
ACCIDENTS; TABLES (DATA)

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Ecklund, E.E.
U.S. Dept. of Energy, Division of Transportation Energy Conservation ADDRESS: Washington, DC 20545
TITLE: Comparative Automotive Engine Operation Then Fueled with Ethanol and Methanol

Report No. HCP/W1737-01, v.p.
1975, Hay
RETWORDS: ALTERNATE FUELS; AUTONOTIVE ENGINES;
ETHAROL; METHANOL; GASOLINE; PERFORMANCE;
COMPARATIVE EVALUATIONS; FUEL-AIR RATIO; FUEL
ECOMONY; AUTONOTIVE ENILSSIONS; TESTING;
GRAPHS (CHARTS); DRIVING CYCLE
AVAILABILITY; GPO, Stock No. 061-000-00074-7

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ADDRESS: 1701 Worth Fort Hyer Drive, Arlington,

VA 22209 TITLE: End Use Energy Consumption Data Base: Series 1 Tables

Report NO. PB-281817, DOE/EIA-0014, 206 p.
1978, June
SPONSOR: U.S. Dept. of Energy, Energy Information
Administration, Office of Energy Data
REFFORDS: EMERGY COMMUNITY ECONOMIC AWALTSIS:
INDUSTRIES; DATA BASES; POLES; INDUSTRIAL
SECTOR; MANUPACTURING; MINING; PAPER
INDUSTRY; TEXTILE INDUSTRY; AGRICOLTURE;
RESIDEWITAL SECTOR; RELECTRIC UTILITIES;
COMMERCIAL SECTOR; HOUSING; STATISTICS;
INCOME; REGIONAL AWALTSIS; TRANSPORTATION;
AUTOMOBILES; AIR TRANSPORTATION; WATER
TRANSPORTATION; TABLES (DATA); BUSSES
(VENICLES); STATE AWALTSIS

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REYMORDS: ELECTRIC VEHICLES; RESEARCH; BATTERIES;
DRIVE TRAIN SYSTEMS; ELECTPIC POWER DEHARD;
UTILITIES: EMVIRONMENTAL IMPACT: PASSEMBER
TRANSPORTATION; AUTOMOBILES; ELECTRIC VEHICLE
PANGE; MARKET; TRUCKS; HAINTEMANCE; MYBERD
ELECTRIC-POWERED VEHICLES; UTILIZATION;
ELECTRIC RAIL SYSTEMS; PERFORMANCE;
EPFICIENCY; ECONOMIC ANALYSIS; PRODUCTION;
BUSES (VERICLES); DIVING CYCLP;
INTERNATIONAL ANALYSIS; DIAGRAMS; PHOTOGRAPHS
AVAILABILITY; NTIS

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REYWORDS: BIBLIOGRAPHIES: EMERGY COMSERVATION;
SOLAR EMERGY; EMERGY COMSUMPTION; BUILDINGS;
BEHAVIOR; EMERGY POLICY; ECOMONICS; WASTE
PROCESSING; EMERGY DEMAND; EMERGY SHORTAGES;
EMERGY RESOURCES; FOSSIL FUELS; AGRICULTURE;
HOUSES; INDUSTRIES; TRANSPORTATION
AVAILABILITY: N.S. Dept. of Emergy, Technical
Information Center, P.O. Box 62, Oak Ridge,
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<194> Energy Research and Development Administration, Division of Transportation Energy Conservation ADDRESS: Washington, DC TITLE: State-of-the-Art (SOA) Test and Data Project Review and Near-Term Electric Vehicle R&D Program Review

1977, Hay 20
KETWORDS: ELECTRIC VEHICLES; TESTING; HYBRID
ELECTRIC-POWERED VEHICLES; US ERDA; VELOCITY;
GRAPHS (CHARTS); PHOTOGRAPHS; RESEARCH;
PERFORMANCE

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Energy Research and Development Administration, Office of Assistant Administrator for Environment and Safety: Energy Research and Development Administration, Office of Assistant Administration for Conservation ADDRESS: Bashington, DC TITLE: Environmental Development Plan: Electric Vehicle Systems, PY 1978

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FOURD BRHAND; HEALTH; SAPPTY; SOCIO-BCONOMIC
PACTORS: AIR QUALITY; BOISE POLLUTION
AVAILABILITY: BTIS

< 196> Engeles, R.E. Barton-Aschman Associates Inc. TITLE: Joint Development: Institutional Constraints and Potentials

Paper presented at the 54th Annual Heeting of the Transportation Research Board, published in Transportation Research Record 565, 12-17

SPONSOR: Wational Academy of Sciences, SPONSOR: Mational Academy of Sciences,
Transportation Research Board
RETHORDS: LAND USE; TRANSPORTATION SYSTEMS;
PLANNING; GOVERNERS POLICIES; PUNDING;
LEGISLATION; INCENTIVES
AVAILABILITY: Mational Academy of Sciences,
Transportation Research Board, 2101
Consitution Ave. Ww, Mashington, DC 20418
36.00 for Transportation Research Record No.

<197> Englehart, J.B. Ford Rotor Co. ADDRESS: Detroit, HI TITLE: The Origin and Uses of the Economy Van

Paper No. 780237, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Hichigan, Pebruary 27 - Harch 3, 1978, 12 p. 1978

REYWORDS: VANS; HISTORY: UTILIZATION:
PMOTOGRAPHS: DESIGN: HARKET; SALES
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<198> Brlbara, W.S.
Wew York State Dept. of Transportation, Planning and Research Bureau ADDRESS: Albany, WY TITLE: Gasoline Demand by Owner Characteristics

Report presented at the 54th innual Resting of the Transportation Research Board, published in "Transportation Energy Conservation and Desard," Transportation Research Record 561,

1976 1976
KETWORDS: GASOLIWE: DENAWD (ECOMONICS);
OWNERSHIP: OWNERS: NEW YORK: AUTOHOBILES;
RATIONING: ALLOCATIONS: PUBL CONSUMPTION;
SIZE: AGE GROUPS: BILEAGE; SET;
SOCIO-ECOMONIC PACTORS
AVAILABILITI: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$5.00 for Transportation Research Record 561

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Brlbaun, W.S.; Hartgen, D.T.; Cohen, G.S.

Hew York State Dept. of Transportation, Plannis
Division, Planning Research Unit
ADDRESS: Albany, NY 12232

TITLE: Automotive Emergy Forecasts: Impact of
Price, Availability, and Efficiency

Preliminary Research Report 133, 99 p. 1977, December
RETUGRDS: MENT YORK; FUEL CONSUMPTION; VEHICLE
HILLS TRAVELED; EMPLOYMENT; FUEL ECONOMY;
GASOLINE; PRICES; SOCIO-ECONOMIC PACTORS; PORECASTING: MODELS: AUTOMOBILES: REGIONAL AWALTSIS: TABLES (DATA): POPULATION (STATISTICS): AUTOMOBILE REGISTRATIONS

Bribaum, M.S.; Trentacoste, H.F.; Knighton, R.G.; Slavick, S.R.
New York State Dept. of Transportation, Planning and Research Bureau, Planning Research Unit ADDRESS: Albany, NY 12232 TITLE: New York State Intercity Travel Data, 1975. Volume II

Report No. DOT/RSPD/DPB/50-77-6, Volume 2 of 3, 40 p. 1977, Hay SPONSOR: U.S. Dept. of Transportation, Office of SPONSOR: U.S. Dept. Of Transportation, Office of University Research RETWORDS: INTERCITY TRANSPORTATION; TRANSPORTATION; TRANSPORTATION; BUSES; STATISTICS; AIR TRANSPORTATION; AUTOHOBILES; BUSES (TERICLES); RAIL TRANSPORTATION; SERVICES; TABLES (DATA)

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Report No. ANL-K-77-3621-1, 441 p. 1977 SPONSOR: Argonne Mational Laboratory
REYWORDS: BATTERIES; ELECTRIC VEHICLES; LEAD-ACID
BATTERIES; COSTS; DESIGN; DIAGRAMS; RESEARCH; AVAILABILITY: WTIS

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Esposito, V.J.
U.S. Dept. of Energy
ADDRESS: Washington, DC
TITLE: Overview of Electric Vehicles in the
United States

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REIWORDS: ELECTRIC VEHICLES; US DOE; RESEARCH; HYBRID ELECTRIC-POWERED VEHICLES; BATTERIES;

PERFORMANCE: STANDARDS
AVAILABILITY: Society of Automotive Engineers
Inc., 400 commonwealth Drive, Warrendale, PA
15096 \$2.50

<203> Sthyl Corp.
ADDRESS: 330 South Pourth Street, Richmond, VA 23219

TITLE: Emissions and Fuel Economy of the Turbulent Flow System for European 4-Cyl Engines

Paper No. 760856, published in SAE SP-411, 33-52 1976, August SPONSOR: Society of Automotive Engineers,

Milwaukee Section RETURN STATEMENT SECTION OF THE STATEMENT OF THE STATEMEN (DATA)

AVAILABILITY: Society of Autosotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096 for SAE SP-411

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Research Publication GMR-2599, 35 p. 1977, December 7 TRAPPIC: THE TENESTORS; FUEL CONSUMPTION;
TRAPPIC: URBAN TRANSPORTATION; VELOCITY;
TRAVEL THRE; VERICLE TRIPS; HYDROCARBOUS;
CAPPOR HOMOXIDE; MITROGER OXIDES; TABLES (DATA); GRAPHS (CHARTS)

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Paper No. 760048, presented at the Automotive Engineering Congress and Exposition, Detroit, Hichigan, February 23-27, 1976, 8 p. 1976

1976
SPONSOR: Society of Automotive Engineers
RETWORDS: TRAFFIC: URBAN TRANSPORTATION: FURL
CONSUMPTION: FURL ECONOMY: GASOLINE:
REGRESSION ANALYSIS: VEHICLE TRIPS: VELOCITY
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Marrendale, PA
15096 92.75

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ADDRESS: Washington, DC
TITLE: Econosic Report of the President Together
with the Annual Report of the Council of
Econosic Advisors Transmitted to the Congress January 1978

Annual report, 384 p. 1978

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1978
REYWORDS: ECOMORICS: ECOMORIC POLICY: GOVERNMENT
POLICIES; INTERNATIONAL RELATIONS; IMPLATION;
UNEMPLOYMENT; EMPLOYMENT; PRODUCTION; TABLES
(DATA); SPEATISTICS
AVAILABILITY: GPO, Stock No. 040-000-00389-4

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Executive Office of the President, Office of Ranagement and Budget ADDRESS: Washington, DC 20503

TITLE: The United States Budget in Brief - Piscal

<208> Brion Research and Engineering Co., Government Research Laboratories; Science Application Inc., Combustion and Propulsion Technology Inc., Com Division Division
ADDRESS: EREF, P.O. Box 8, Linden, MJ 07036;
SAI,20335 Ventura Boulevard, Suite 823,
Woodland Hills, CA 91364
TITLE: Pundamental Characterization of Alternate
Fuel Effects in Continuous Combustion Systems

Report No. TID-28463, Technical Progress Report RODOL NO. TID-2003, TECHNICAL PROGRAMS REPORT
NO. 1, v.p.
1978, January 11
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Transportation Energy Conservation
RETWORDS: ALTERNATE PUBLS; COMBUSTION; CHEMICAL PROPERTIES; HODELS; CONBUSTION PROPERTIES; HODELS; GAS TURBINE ENGINES; HYDROGEN; HITROGEN: TREEHODYWANIC PROPERTIES: TRUBULENT PLOW: DROPLETS: SPRAYS: DECOMPOSITION: OXIDATION; GRAPHS (CHARTS) AVAILABILITY: RTIS

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INTERCITY TRANSPORTATION: CARGO
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DEVELOPING COUNTRIES; NUCLEAR EMERGY; EMERGY
CONSERVATION; EMERGY HANAGEMENT; ECONOMICS;
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CONSUMPTION; PERFORMANCE; DESIGN; WASTE HEAT;
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ADDRESS: Schenectady, NY 12301
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ADDREC*: Larren, HI 48090
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OTTAWA-CARLETOM (CAMADA): TRANSPORTATION;
PLANNING: URBAN TRANSPORTATION; DYMOGRAPH;
SOCIO-ECOMODIC FACTORS: TRAVEL; DEMAND
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UNEMPLOYMENT

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TITLE: Regional Transportation Energy Conservation Data Book. Edition 1

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GRAPMS (CHARTS): TRANSPORTATION MODE CHOICE;
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ADDRESS: Box 55, Saugatuck Station, Westport, CT
06880
TITLE: Statistics with Application to Highway
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Applications, Transportation Programs Office
KEYWORDS: VANPOOLS: HARKETING: COMMUTERS:
OWNERSHIP: VANS; COMPORATIONS: INCENTIVES;
PLANNING: PARKING: ADVERTISING
AVAILABILITY: GPO, Stock No. 061-000-00083-6

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ADDRESS: 6532 E. Halbert Road, Bethesda, HD 20034
TITLE: Energy Consumption, Incomes, and Rousing

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ADDRESS: Jerusales, Israel
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KEYWORDS: TRAVEL TIME; TRANSPOPTATION; ECONOMIC
ANALYSIS; VEHICLE TRIPS; GRAPHS (CHARTS);
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Transportation Research Board, 2101
Constitution Ave. HW, Washington, DC 20418
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General Electric Co.
ADDRESS: New York, NY
TITLE: Development of a High Performance and

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AVAILABILITY: Electric Vehicle Council, 90 Park Ave., New York, NY 10016 \$1.50

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TITL*: Passenger Car Fuel Economy in Short Trip
Operation: Alternative Fuels Utilization

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ADDRESS: Tyton, NY 11973
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SPONSOF: J.S. Dept. of Energy
REYWODS: COAL; UTILIZATION; FORECASTING; FUEL
CONSUMPTION: NATURAL GAS; REGIONAL ANALYSIS;
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EMERGY SUPPLIES; PETROLETH; ALLOCATIONS; TABLES (DATA) AVAILABILITY: NTIS

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SPONSOR: Society of Automotive Engineers
KEYWORDS: DIESEL ENGINES; ENGINES; AUTOMOTIVE
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SPOWSOR: Energy Research and Development
Administration
RETWORDS: ALTERNATE FUELS; METHANOL; PROPERTIES;
EMISSIONS: PRODUCTION; CORBUSTIOF; UTILIZATION; COSTS; ECONOMIC ANALYSIS; HAZARDS; BIBLIOGRAPHIES; ENGINES; GASOLINE AVAILAPILITY: WIIS

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KEYWORDS: ELECTRIC VEHICLES; EMERGY PLOW;
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AVAILABILITY: MTIS

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Hamilton, W.
General Research Corp.
ADDRESS: Santa Barbara, CA 93105
TITLE: Electric Car Technology for Demonstration
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Paper presented at the Fourth Fational Conference on the "Effects of Energy Constraints on Transportation Systems," held at Union College, Schenectady, New York, on August 1-5, 1977, 26 p. 1977
SPOPSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation
ENERGY Conservation
RETWORDS: ELECTRIC VEHICLES; TECHNOLOGY;
DEHORSTRATION; DEVELOPMENT; NICKEL-ZINC BATTERIES; BATTERIES; LITHIUH-ALUHI UNI/HETAL SULFIDE BATTERIES; LEAD-ACID BATTERIES;
PERFORMANCE; GRAPHS (CHARTS); EMERGY CONSUMPTION

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SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation RETMORDS: URBAN TRANSPORTATION; FORECASTING;

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Paper Mo. 780219, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Michigan, February 27 - March 3, 1978, 12 p.

KEYWORDS: TREAM TRANSPORTATION: ATTOMOBILE DRIFERS; VEHICLE MILES TRAVELED; VEHICLE
TRIPS; SURVEYS; TRAVEL; TABLES (DATA); LOS
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AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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SPOMSOR: Electric Vehicle Council; International Union of Producers and Distributors of Flectrical Energy KFTMORDS: ELECTRIC FEHICLES; 'RANSPORTATION;

RPYMORDS: ELECTRIC VEHICLES; RRANSPORTATION; LFAD-ACIC BATTERIES; ENERGY; FORECASTING; GRAPHS (CHARTS); NICKEL-ZINC BATTERIES; COSTS; TABLES (DATA); AIR POLLUTION; SAINT LOUIS (NISSOURI); PHILADELPHIA; LOS ANGELES; GOVERNMENT POLICIES; PETROLEUS AVAILABILITY: Electric Vehicle Council, 90 Park AVE., New York, NY 10016 \$1.50

<282> Hamilton, F.P. General Research Corp.
ADDRESS: P.O. Box 3587, Santa Barbara, CA 93105
TITLE: Applicability of Electric Cars

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1977, December
SPONSOR: J.S. Deot. of Energy
KEYWORDS: AUTOMOBILE DRIVERS; DISTANCE; ELECTRIC
VEHICLE RANGE; VEHICLE PARKING; VELOCITY;
FORECASTING; SURVEYS; VEHICLE TRIPS; URBAN
AREAS: LOS ANGELES; WASHINGTON DC: TABLES
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TRANSPORTATION; BATTERIES; BATTERY CHARGING

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KEYMORDS: TRANSPORTATION; PLANMING; LAND USE;
LOCAL GOVERNMENT; GROWTH; GOVERNMENT POLICIES
AVAILABILITY: Mational Academy of Sciences,
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Constitution Ave. NW, Washington, DC 20418
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REYWORDS: FUEL ECONOMY; AUTOMOTIVE ENGINEERING; DESIGN; AUTOMOBILES; PUEL CONSUMPTION;

REGULATIONS; CONSUMERS; GPAPHS (CHARTS); WEIGHT: HATERIALS AVAILABILITI: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096 \$2.50

Harding, G.G. Lucas (Joseph) Ltd. ADDRESS: United Kingdom TITLE: High Performance Electric Commercial Vehicles for City Use

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SPORSOR: Society of Automotive Engineers
RETHORDS: ELECTRIC VEHICLES; TAXICABS; BUSES
(VEHICLES); VANS; LEAD-ACID BATTERIES;
ELECTRIC POWER DEMAND; HARKET; ECONOMICS;

URBAN TRANSPORTATION
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.75

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SPONSOR: U.S. Dept. of Transportation
REYWORDS: CARPOOLING: AUTOHOBILE DRIVERS;
BEHAVIOR: EMERGY CONSERVATION; ATTITUDES;
SURVEYS; TRANSPORTATION; GRBAN
TRANSPORTATION; CONHUTTING; INCENTIVES;
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Hack, R.M.; Chang, H.; Hess, H.; Carrubba, R.
Engelhard Industries, a Division of Engelhard
Hinerals & Chesicals Corp.
ADDRESS: Henlo Park, Edison, N° 08817
TITLE: Durability Testing at One Atmosphere of
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REYWORDS: TESTING: CATALYSTS; AUTOHOBILES; GAS
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PRISSIONS; PROPANE; DIESEL FUELS; AUTOHOTIVE
EMISSIONS; LIPE (DURABILITY); TABLES (DATA);
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ADDRESS: 4800 Oak Grove Drive, Pasadena, CA TITLE: Costs and Energy Efficiency of a Dual-Hode System

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ADDRESS: Henlo Park, CA 94025
TITLE: Energy Study of Automated Guideway Transit
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ADDMESS: 76 Getty Street, Huskegon, HI 49442
TITLE: Automotive Diesel Technology Program:
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RETWORDS: AUTOHOTIVE PHISSIONS; DIESEL ENGINES; AUTOMOBILES; COMPUTERIZED SIMULATION; PUBL ECONOMY; DESIGN; TESTING; GRAPHS (CHARTS); NITROGEN OXIDES

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REWORDS: DIESEL FUELS: PERFORMANCE: TESTING:
TABLES (DATA): AUTOMOTIVE ENISSIDES; EUROPE;
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COBSERVATION; TABLES (DATA); GRAPHS (CHARTS);
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PRASIBILITY: RETROPITTING; COMPARATIVE
EVALUATIONS: TRUCKS; AUTOMOBILES; HARKET; EVALUATIONS; TRUCKS; NOTOHOLLES; HARRET; PASSENGER TRANSPORTATION; CARGO TRANSPORTATION; BUSES (VEHICLES); HODELS; HOBILITT; EVVIRONMENTAL IMPACT; ECONOMICS; GRAPHS (CHARTS); EQUIPMENT; GOVERNMENT POLICIES; RETROPIT DEVICES

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ADDRESS: Los Angeles, CA
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PLANNING; AUTOHOBILES; SURVEYS; AUTOHOBILE
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CHARGE ENGINES: INTERNAL COMBUSTION ENGINES;
GAS TURBINE ENGINES; COMPARATIVE EVALUATIONS;
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DIAGRAMS: GRAPHS (CHARTS)
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800 Commonwealth Drive, Warrendale, PA 15096

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ASPECTS: FINANCING; COMPARATIVE EVALUATIONS
AVAILABILITY: Mational Academy of Sciences,
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TITLE: Railroads and the Environment: Estimation
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Volume I: Analytical Model

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SPONSOR: U.S. Dept. of Transportation, Federal
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Transportation and Urban Analysis Dept.;
Illinois, University of, Dept. of Business
Administration ADDRESS: GRC, Warren, HI 48090; UI, Urbana, IL 61801

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MARKETING: SURVEYS: TABLES (DATA): GRAPHS (CHARTS): ILLINOIS

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ADDRESS: Washington, DC
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AVAILABILITY: National Academy of Sciences, Transportation Research Board, 2101 Constitution Ave. NW, Washington, DC 20418 \$2.20 for Transportation Research Record 626

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R.E.; Chan, V.K.; Howland, H.I.; Sesinoff,
S.A.; Tahradnik, A.R.
California, Wniversity of, Institute of
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ADDRESS: Berkeley, CA
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ADDRESS: Berkeley, CA
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Seaborn, C.C.
Oak Ridge Mational Laboratory, Information
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TITLE: Transportation Energy Conservation Data
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SPONSOR: Energy Research and Development
Administration, Office of Conservation,
Division of Energy Storage Systems, Advanced
Physical Methods Branch
KEYWORDS: TLYWHELLS: RESEARCH: TECHNOLOGY:
DESIGN: GRAPHS (CHARTS): TABLES (DATA):
HATERIALS: STRESS ANALYSIS: HYBRID
ELECTRIC-POWERED VEHICLES
AVAILABLITT: WILS
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Huddleston, R.L.; Kelly, J.J.; Knight, C.B.
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ADDRESS: P.O. Box Y, Oak Ridge, TN 37830
TITLE: Composite Flywheel Development (April 1 June 30, 1977)

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KEYGORDS: *PORECASTING; AUTOROBILES; OFFERSHIP;
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AWALYSIS: GRAPHS (CHARTS): LIPE STYLE

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General Technical Services Inc.
ADDRESS: 8794 West Cheater Pike, Upper Darby, PA 19082
TITLE: Physical Foundations for Socio-Economic Modeling for Transportation Planning. Part I: Interaction Between Urban Centers as a

Potential Process

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SPOWSOR: U.S. Dept. of Transportation,
Transportation Systems Center, Office of
Systems Research and Analysis
RETWORDS: PHTSICS; STATISTICAL AWALYSIS;

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KEYNORDS: PHYSICS; STATISTICAL AMALYSIS;
HATHEMATICS; POPULATION (STATISTICS); URBAN
AREAS; TRANSPORTATION; BOLTZHANN STATISTICS;
SYSTEMS AMALYSIS; HODBLS; PLANNING
AVAILABILITY: HTIS

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TITE: Server Hodels for Transportation

TITLE: Systems Hodels for Transportation Problems. Part II: The Social Physics for Hodern Societies - The Role of the Cities

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1977, September
SPONSOR: U.S. Dept of Transportation,
Transportation Systems Center, Office of
Systems Research and Analysis
RETWORDS: POPULATION (STATISTICS): SYSTEMS
ANALYSIS; POPULATION DYMANICS: SOCIO-ECONOMIC
PACTORS: URBAN APRAS: HISTORY:
TRANSPORTATION: RODELS
AVAILABILITY: HTIS

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Imai, R.
Toyota Rotor Co. Ltd.
ADDESS: Toyota, Japan
TITLE: Development of Electric Vehicles at Toyota

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REYSORDS: DEVELOPHENT; ELECTRIC VEHICLES; TABLES
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LEAD-ACID BATTERIES; AUTOROBILES; TRUCKS;
COMPARATIVE EVALUATIONS; ENERGY CONSERVATION;
PERFORMANCE
AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

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REYWORDS: STATISTICS; ROADS; TABLES (DATA);
PRODUCTION: EXPORTS; VEHICLES; INTERNATIONAL
TRADE; VEHICLE REGISTRATIONS; IMPORTS;
TRAPPIC: AUTOMOTIVE PUBLS

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TITLE: 91st Annual Report of the Interstate
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KEYWORDS: TRANSPORTATION; REGULATIONS; CONSUMERS;
PROTECTION; RAIL TRANSPORTATION; CARGO
TRANSPORTATION; PIPELIME TRANSPORTATION;
TARIPPS; WATER TRANSPORTATION; LEGISLATION;
PINANCIAL DATA; PIRANCIAL MANAGERENT
AVAILABILITY: GPO, Stock Bo. 026-000-01096-9

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Interstate Commerce Commission, Bureau of Accounts ADDRESS: Washington, DC 20423
TITLE: Preight Commodity Statistics: Hotor Carriers of Property, Year Ended December 31, 1974

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REYWORDS: COMMODITIES; REGIONAL ANALYSIS; TABLES
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TOMMAGE; TRUCKS; STATISTICS; WEIGHT
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REYBORDS: TABLES (DATA); WATERWAY TRANSPORTATION;
REVENUE; WATER TRANSPORTATION: CARGO
TRANSPORTATION: PASSENGER TRANSPORTATION;
PINANCIAL DATA; REGIONAL ANALYSIS; OPERATING
COSTS; RARIW: TRANSPORTATION; CORNODITIES;
TOWNAGE
AVAILABILITY: GPO, Stock No. 026-000-0069-1

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PITLE: Transport Statistics in the United States for the Year Ended December 31, 1975. Part 1: Railroads, Their Lessors and Proprietary Companies, and Electric Railways

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REYWORDS: BAIL TRANSPORTATION; BAILBOADS;
FINANCIAL DATA; REGIONAL ANALYSIS; INCOME;
OPERATING COSTS; CARGO TRANSPORTATION;
BQUIPMENT; TABLES (DATA); BALANCE SHEETS;
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TRANSPORTATION
AVAILABILITY: GPO, Stock No. 026-000-01067-5; See
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TITLE: Transport Statistics in the United States
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REYFORDS: CARGO TRANSPORTATION; PINANCIAL DATA;
REYBRUE; STATISTICS; OWNERSHIP; TABLES (DATA)
AVAILABILITY: GPO \$0.40, Stock No.
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REYURDS: STATISTICS; OWERSHIP; RAIL
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(DATA)
AVAILABILITY: GPC \$0.55, Stock No.
026-000-01052-7

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Interstate Commerce Commission, Bureau of Accounts ADDRESS: Washington, DC
TITLE: Transport Statistics in the United States for the Tear Ended December 31, 1975. Part 2: Hotor Carriers

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RESEARCH
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TITLE: Rail Transit

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TABLES (DATA); EMERGY CONSUMPTION;
PESIDENTIAL SECTOR; COMMERCIAL SECTOR;
INDUSTRIAL SECTOR; TRANSPORTATION - ELECTRIC
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FLOW: AIRPOILS; COMPOSITE MATERIALS;
DIAGRAMS; GRAPMS (CHARTS); DESIGN; CONTROL
EQUIPMENT; OPERATING COSTS
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096

<371> Lerman, S.R. Tassachusetts Institute of Technology, Dept. of Civil Engineering ADDRESS: Cambridge, NA 02139 TITLE: Location, Housing, Auto Ownership and Rode to Work: A Joint Choice Hodel

Paper presented at the Fifty-Fifth Annual Recting of the Transportation Research Board, Washington, DC, 48 p. 1975, August 1975, August
KEYMORDS: RESIDENTIAL SECTOR; TBANSPORTATION;
SHOPPING TRIPS; HODELS; URBAN AREAS;
BEHAVIOR; EMPLOYMENT; DECISIONS;
SOCIO-ECONOMIC PACTORS; LAND USE;
AUTOMOBILES; OWNERSHIP; HOUSING; DISTANCE;
GRAPHS (CHARTS); COMMUTING

<372> Lerman, S.R. Massachusetts Institute of Technology, Dept. of Civil Engineering
ADDRESS: Cambridge, MA 02139
TITLE: Application of Choice Theory to
Residential Location and Related Household Decisions

Paper presented at the annual North American Meeting of the Regional Science Association, Movember 7-9, 1975, v-p. ROVERDER 7-9, 1975, v-p1975, NOVERDER
REFURDS: RESIDENTIAL SECTOR; URBAN
TRANSPORTATION: NODELS; SHOPPING; URBAN
AREAS; BERAFION; ENPLOYMENT; DECISIONS;
SOCIO-ECOMORIC FACTORS; AUTOMOBILES;
OWNERSHIP; HOUSING; GRAPHS (CHARTS); TABLES
(DATA); DISTANCE; CONHUTING; FORECASTING

<373> Leahner, H.D.; Baisley, W.H.; Leahner, E. Fael Injection Development Corp. ADDRESS: 110 Harding Avenue, Bellnawr, HJ 08030 TITLE: A Tuel Vapor Injection/Igniter System. Final Report <373> COTT.
Report Bo. E-4, 84 p.
1977
SPCHSOR: Energy Research and Development
Administration
KEYWORDS: FOEL ENJECTION SYSTEMS; FUEL-AIR RATIO;
TESTING: AUTOMOTIVE ENGINES; DESIGN: FUEL
ECONOMY; AUTOMOTIVE ENISSIONS; PEPFORMANCE;
IMPERAL CONSUSTION ENGINES; DIAGRAMS

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Levine, C.A.
Dow Chemical Co.
ADDRESS: Walnut Creek, CA
TITLE: Sodium-Sulfur Battery System: Annual
Report, Hay 19, 1975 - Hay 19, 1976

Report No. COO-2565-4, 68 p.
1976, November 1
SPONSOR: Energy Research and Development
Administration, Division of Conservation
"esearch and Technology
KPYMORDS: SODIUM-SULFUR BATTERIES: LIFE
(OUPABILITY); RESEARCH: TECHNOLOGY;
ELECTROLITES: ELECTRODES: CATHODES: GRAPHS
(CHATIS); COSTS
AVAILABILITY: HTIS

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Levinsohn, D.H.; TcQueen, J.T.
U.S. Tept. of Commerce, National Bureau of
 Standards
ADDPESS: Washington, DC 2023%
TITLE: A Procedure for Estimating Automobile Fuel
 Consumption on Congested Orban Roads

Peport No. COM-75-10057, NASIR 74-595, 20 p.
1974, August
SPONSOR: U.S. Dept. of Transportation, Urban Hass
Transportation Administration
KEYPORDS: AUTOHOBILES: PUEL CONSUMPTION: UPBAN
AR 285; HIGHWAYS: DRIVING CTCLE; VEHICLE HILES
TOAVELED: TOAPFIC: FORECASTING:
CLASSIFICATIONS: WEIGHT: SIZE: AIR
CONDITIONING: TRAFFIC CONTROL: PUEL ECONOMY
AVAILABILITY: WIIS

<376> Library of Congress, Congressional Research Service ADDESS: Washington, DC 20540 TITLE: National Energy Transportation. Volume III: Issues and Problems Congressional Committee Print, 95th Congress, 2nd Session, Publication No. 95-15, 560 p. 1978, Harch Sensor, H. S. Sensor, Committee on Transportant

Session, Publication No. yo-10, you 1978, Rarch
SPONSOR: U.S. Senate, Committee on Energy and Natural Resources: U.S. Senate, Committee on Commerce, Science, and Transportation RETWORDS: WEATHER: HAZABDS: LIQUEFIED HATURAL GAS; INTERNATIONAL RELATIONS: REGIONAL ANALYSIS: FUELS: RAIL TRANSPORTATION; EMERGY SUPPLIES: EMERGY RESOURCES: PIPELINE TRANSPORTATION: COAL: PETROLEUM: HATURAL GAS: TRUCYS: CARGO TRANSPORTATION: HIGHWAY TRANSPORTATION; MICLEAR FUELS: WATER TRANSPORTATION; ALASKA: IMPORTS: TANKER SHIPS: SAPET: TRANSPORTATION: FOEL ETPICIENCY: STANDARDS: RATES (COSTS): REGULATIONS
AVAILABILITY: GPO, Stock No. 052-070-04469-1

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Liff, S.D.
Yoorhees (Alan H.) and Associates Inc.
ADDRESS: Hclean, VA
TITLE: Travelers' Attitudes and Energy
Conservation

20 p.
RETYORDS: TRAVEL; ATTITUES; EMERGY COMMENTATION;
BEHAVIOR; PLANNING; PORBCASTING; AUTOMOBILE
DRIVERS; AUTOMOTIVE PUELS; PRICES;
AVAILABILITY; SOCIO-ECOMONIC PACTORS; PUEL
ECOMOBY; VERTICLE TRIPS; EMERGY SHORTAGES;
GASOLIME; URBAN TRANSPORTATION; SURVEYS;
PUBLIC OPIMION; AUTOMOBILES; OWNERSHIP;
COMMUTING

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Lindgren, L.; Fitzgibbons, R.G.
Rath 6 Strong Inc.
ADDRESS: 21 Wrothen Road, Lexington, HA 02173
TITLE: Autosotive Data Base for Hanufacturing
Assessment System

398 p.
1976, June 1
SPONSOR: U.S. Dept. of Transportation,
Transportation Systems Center
REYWORDS: AUTOHOTIVE INDUSTRY: TABLES (DATA);
GRAPHS (CHARTS): DATA BASES: COSTS:
DEVELOPMENT: HAINTENANCE; PRODUCTION;
COMPARATIVE EVALUATIONS: HANGFACTURING;
HANGPACTURERS; EMGINES: AUTOHOBILES;
VERICLES; FOEL ECONOMY: TRUCKS: EQUIPMENT

Report No. ORNL/Sub-78/14285/1, Special, 64 p.
1978, October
SPONSOR: Oak Ridge National Laboratory, Energy
Division, Regional and Urban Studies Section;
U.S. Dept. of Energy, Division of
Transportation Energy Conservation
REYNORDS: TRUCKS; INVENTORIES; PORECASTING;
OWNERSHIP; GROWTH; HIGHMAY TRANSPORTATION;
UTILIZATION: VEHICLE REGISTRATIONS;
SOCIO-ECONOMIC FACTORS; VANS

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Lippmann, S.A.; Oblizajek, K.L.; Metters, J.J.
Uniroyal Tire Co.
TITLE: Sources of Rolling Resistance in Radial
Ply Tires

Paper No. 780258, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hell, Detroit, Michigan, February 27 - March 3, 1978, 16 p. 1978 KEYNORDS: TIRES: FRICTION; WEAR; TESTING; HEAT; GRAPHS (CHARTS); DESIGN AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096 \$2.50

<381>
LHC Corp.
ADDRESS: 476 Dunn Circle, Sparks, NV 89431
TITLE: Evaluation of Selected Drive Components

والمقابر والرموا المحاري المحاري المحاري المحاري والمراجع

<381> <381> COFT. for a Flywheel Powered Commuter Vehicle. Final Report. Phase I

Report Bo. SAB/1164-1, LHC-770401-8, v.p. 1977, June 30 SPONSOR: Energy Research and Development
Administration, San Francisco Operations ATRIDIATE ATTOM, SAN FRANCISCO OPERATIONS
OFFICE; U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KPTWOPDS: PLYMRELS; BURSTY STORAGE; DIAGRAMS;
GRAPMS (CHARTS); ELECTRIC VEHICLES; TESTING;
HODELS: ROTORS; BERRINGS; SHAPTS; SEALS AVAILABILITY: WTIS

<382> C3827 Loncutoff, W.V. Battelle Pecific Borthwest Laboratories ADDRESS: Fichlani, WA 99352 TITLE: Flywheel/Heat Engine Power for an Energy-Economic Personal Vehicle

Report No. 88WL-2006, 48 p. 1976, Harch SPONSOR: Energy Research and Development SPONSOF: Energy Assessment and Society Annia in the strong Annia i BCOMONT; DESIGN AVAILABILITY: NTIS

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Lutin, J.B.
Princeton University, Dept. of Civil Engineering
ADDRESS: Princeton, NJ
TITLE: Energy Savings for Work Trips: Analysis
of Alternative Commuting Patterns for New

Report presented at the 54th Annual Resting of the Transportation Research Board, published in "Transportation Energy Conservation and Demand," Transportation Research Record 561,

REYWORDS: EMERGY COMSERVATION; COMMUTING; MEW JENSET; HAPS; COMPARATIVE EVALUATIONS; EMERGY CONSUMPTION; GOVERNMENT POLICIES; AUTOMOBILES; PUBLIC TRANSPORTATION; PLANNING; AUTOMOBILE OCCUPANCY; HODELS; CARPOOLING;

EFFICIENCY AVAILABILITY: Mational Academy of Sciences, Transportation Research Board, 2101 Constitution Ave. NV, Washington, DC 20418 \$5.00 for Transportation Research Record 561

<384>
Raio, D.J.; Wang, G.H.; Weltzer, N.
U.S. Dept. of Transportation, Transportation
Systems Center AppRESS: Rendall Square, Cambridge, MA 02142 TITLE: Forecasting Hodels for Air Freight Demand and Projection of Cargo Activity at U.S. Air

Report No. PAA-AVP-77-2, 175 p.
1977, January
SPOHSOR: 7.5. Dept. of Transportation, Federal
Aviation Administration, Office of Aviation POILCY
KEYUORDS: FORECASTING; HODELS; CARGO
TRANSPONTATION; AVIATION; ATRPORTS;
ECONOMETRIC HODELS; PASSENGER EMPLAMEMENTS; GRAPHS (CHARTS): PASSENGER TRANSPORTATION: GRAPHS (CHARTS): INTERNATIONAL TRAVEL: DEMAND (ECONOMICS)
AVAILABILITY: NTIS

< 385> Tat, K.K.: Jones, P.S. Georgia Institute of Technology TITLE: Priority Analysis Procedure for Ranking Highway Improvement Projects

Report presented at the 54th Annual Heeting of the Transportation Research Board, published in Transportation Research Second 585, 35-48 REYWORDS: HIGHWAYS: CONSTRUCTION: PLANEING: STATE GOVERNMENT: QUESTIONNAIRES AVAILABILITY: Mational Academy of Sciences, Transportation Research Board, 2101 Constitution Ave. NV, Washington, DC 20418 \$3.60 for Transportation Research Record 585

Nation of Transportation

J.S. Dept. of Transportation

ADDRESS: Heahington, DC

TITLE: Concise Description of Auto Fuel Economy
and Performance in Recent Hodel Years

Paper No. 760045 presented at the Automotive Engineering Congress and Exposition, Detroit, Michigan, Pebruary 23-27, 1976, 13 p. 1976
SPOMSOR: Society of Automotive Engineers
RETWORDS: ALGORITHMS; FUEL ECONOMY; VEHICLES;
TABLES (DATA); GRAPHS (CHARTS); AUTOMOBILES;
TRUCKS; PERFORMANCE; ACCELERATION
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.75

< 387> Handelker, D.R.; Stamper, H.A. Mashington, University of, School of Law ADDRESS: Seattle, WA 98105 TITLE: New Frontiers for Land Development Controls

Paper presented at the 54th Annual Resting of the Transportation Research Board, published in Transportation Research Record 565, 6-11

1976
SPONSOR: National Academy of Sciences,
Transportation Research Board
RETWORDS: LAND DEVELOPMENT: POLLUTION
REGULATIONS: TRANSPORTATIOP SISTEMS; AIR
POLLUTION; GOVERNHENT POLLCIES
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave: MY, Washington, DC 20418
\$6.00 for Transportation Research Record No.
565

Marcus. A. MacCus, A. Hechanical Technology Inc.
ADDRESS: 968 Albany-Shaker Road, Latham, NY
TITLE: An Advanced Electric Motor Transmission
for Electric Wehicles: Development Plan. Technical Report

Report No. COO/2835-3, v.p.
1977, November
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KETWORDS: TECHNOLOGY ASSESSMENT: EFFICIENCY;
DESIGN; FABRICATION; ELECTRIC VEHICLES;
MODELS; TABLES (DATA); TRANSPORTATION; GRAPHS
(CHAPTS). TRETTING (CRARTS); TESTING AVAILABILITY: MTIS

<389>
Harcus, A.; Pinkus, O.
Hachanical Technology Inc.
ADDRESS: Lathan, NY
TITLE: Characterization Stud, of an Electric
Hotor-Transission System for Electric
Vehicles: Technical Report

Report Fo. COO/2835-2, v.p.
1977, September
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYFORDS: ELECTRIC VERICLES; PERFORMANCE; DESIGN;
BATTERIES; TECHBOLOGY; TESTING;
SPECIFICATIONS; BLECTRIC MOTORS; EFFICIENCY;
ATTOMOTIVE ENGINEERING; COST ESTIMATES;
GRAPHS (CHARTS); TABLES (DATA)
AVAILABILITY: MTIS

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Harek, C.; Jones, T.R.
Yulcan Haterials Co.
TYTLE: Vill There Be a Haterials Crisis?

Paper published in Transportation Besearch Board Special Peport 166, 18-28
1976
REY*ORDS: CONSTRUCTION; HATERIALS;
TRANSPORTATION; HINERALS; RESERVES;
PRODUCTION; TABLES (DATA); GRAPHS (CHARTS)
AVAILABILITY: Mational Academy of Sciences,
Mational Research Council, Transportation
Research Board, 2101 Constitution Ave. NW,
Washington, DC 20418 \$6.00 for TRB Special
Paport 166

<391>
Rarex, Harketing Committee
ADDRSS: 401 W. Hichigan Ave., Chicago, IL 6061
fill: State Boat Registration 1967 - 1975

25 p.
RETRORDS: BOATS; VEHICLE REGISTRATIONS;
HATERIALS; TABLES (DATA); SIZE

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Rarshall, W.F.; Stamper, R.R.
Bnergy Pesearch and Development Administration,
Bartlesville Energy Research Center
AppRESS: P.O. Box 1398, Bartlesville, OR 74003
TITLE: Puel Consumption, Esissions, and Power
Characteristics of the 1975 Datsun 119-CID
Automotive Engine--Experimental Data

Peport No. PB-261308, DOT-TSC-OST-76-42, %0 p.
1976, November
SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and
Technology, Office of Systems Engineering;
U.S. Dept. of Transportation, Transportation
Systems Center, Power and Propulsion Branch
KEYWORDS: FUEL CONSURPTION; AUTOHOTIVE EMISSIONS;
INTERNAL COMBUSTION ENGINES; PERFORMANCE;
TESTING: CARBON HONOXIDE; HITROGEN OXIDES;
HTDPOCARBONS; GRAPHS (CHARTS); TABLES (DATA)
AVAILABILITY: HTIS

Characteristics of the 1975 Ford 140-CID Automotive Engine--Experimental Data

Report No. PB-261771, DOT-TSC-OST-76-43, 40 p.
1976, November
SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and
Technology, Office of Systems Engineering;
U.S. Dept. of Transportation, Transportation
Systems Center, Power and Propulsion Branch
REYWORDS: FUEL CONSUMPTION; AUTOHOTIVE EMISSIONS;
INTERNAL COMBUSTION ENGINES; PERFORMANCE;
HYDROCARBONS; CARBON MONOXIDE; MITROGEM
OXIDES; TESTING; GRAPHS (CHARTS); TABLES
(DATA)
AVAILABILITY: HTIS

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Hartin, W.F. (ed.)
Hassachusetts Institute of Technology, Workshop
 on Alternative Energy Strategies (WAES)
ADDRESS: Casbridge, HA 02139
TITLE: Energy Supply to the Year 2000: Global
 and Mational Studies

Second Technical Report of the Workshop on Alternative Energy Strategies (WAES), \$22 p. 1977

SPONSOR: Mational Science Foundation REWORDS: EMERGY SUPPLIES; FORECASTING; INTERNATIONAL ANALYSIS; COAL; RESERVES; EMERGY CONSUMPTION; MUCLEAR EMERGY; FUELS; FOSSIL PUELS; UNCONVENTIONAL EMERGY; SOURCES; PETROLEUM; INTERNATIONAL TRADE; GROWTH; CANADA; DEWNARK; FIRLAND; FRANCE; GREMAN FEDERAL REPUBLIC; ITALY; JAPAN; HEXICO; METHERLANDS; NORWAY; SWEDEN; UNITED KINGOON; UNITED STATES; OPEC; COSTS; TABLES (DATA); EUROPE; GOVERNEMT POLICIES; PRICES AVAILABILITY; NIT Prese, Cambridge, NA 02139 \$30.00

C395>
Hartini, W.R.
Washington, University of, Joint Center for
 Graduate Study
DDRESS: 100 Sprout Rd., Richland, WA 99352
TITLE: Stirling Engine Design Hanual

Pinal Report, Report No. DOE/HASA/3152-78/1, WASA
 CR-135382, 370 p.
1978, April
SPONSOR: U.S. Dept. of Energy, Division of
 Transportation Energy Conservation: National
 Aeronautics and Space Administration, Levis
 Research Center
KEYHORDS: STIRLING ENGINES; DESIGN: HANUALS;
 BIBLIOGRAPHIES; PERFORMANCE; OPTIRIZATION;
 SIRULATION; RODELS; DIAGRAMS; RESEARCK

<396>
Hason, W.T., Jr.; Bebbe, P.S.
General Hotors Corp., Research Laboratories,
Fluid Dynamics Research Dept.
ADDRESS: Warren, HI 48090
FITLE: The Drag Related Flow Field
Characteristics of Trucks and Buses

AVAILABILITY: NTIS

Research Publication GHR-2257, presented at 1976 GHR Symposium on Aerodynamic Drag Hechanisms of Bluff Bodies and Road Vehicles, September 27, 1976, 64 p. 1977, August REYMORDS: TRUCKS; BUSES (VEHICLES); AERODYNAMICS; DESIGN; SIZE; DRAG; TRAILERS; DIAGRAMS; <396> <396> CONT.

< 397> Gay?/
Maximina, D.E. (compiler): Hobley, E.R. (ed.)
General Motors Corp., Research Laboratories,
Library, System on Automotive Safety
Information
ADDRESS: Warren, HI 48090
TITLE: Electric Vehicles, 1890-1966: A Bibliography

Report No. GMR-2425, SASI 77-521, V.p. 1977, May 13
REYMORDS: ELECTRIC VEHICLES; BIBLIOGRAPHIES; HISTORY: AUTOHOBILES; BUSES (VEHICLES): TAXICABS; TRUCKS; EQUIPMENT; BATTERIES

McCarthy, K.P.: Morrison, P.A. Rand Corp.

ADDPESS: 1700 Main Street, Santa Monica, CA 90406
TITLE: The Changing Deacographic and Economic
Structure of Monmetropolitan Areas in the

Report No. P-6062, earlier version given at Annual Heeting of Population Association of America, April, 1977, St. Louis, Missouri, 51 1978, January RETWORDS: POPULATION GROWTH; DEMOGRAPHY; URBAN DEVELOPMENT; RURAL AREAS; RECREATION; FABILY LIPE; HANDPACTURING; EMPLOYMENT; REGIONAL ANALYSIS; POPULATION HIGRATION; STATE

GOVERNMENT: TABLES (DATA): ECONOMIC COMMITTIONS: INCOME; MAPS; TRANSPORTATION; COMMUTING; GRAPHS (CHAPTS): LIFE STYLE; SOCIO-ECONOMIC PACTORS

< 3992 <399>
HcGillivray, R.G.
Trban Institute
ADDRESS: 2100 H Street NW, Rashington, DC 20037
TITLE: Gasoline Use by Automobiles

Paper presented at the 54th Annual Heeting of the Transportation Research Board, published in Transportation Research Record 561, entitled "Transportation Energy Conservation and Demand, # 45-56

1976
SPONSOR: Tational Academy of Sciences,
Transportation Research Board
KEYFORDS: GASOLINE; CONSUMPTION; AUTOMOBILES;
TRANSPORTATION; FUEL CONSUMPTION; COSTS;
TABLES (DATA); PORECASTING; DEMAND
(*COFFORICS); TATHERATICAL HODELS; PASSENGER
TRANSPORTATION; OWNERS; HARKET; PRICES;
ELASTICITY (ECONOMICS)

< 900> RCGraw-Hill Publications Co., Research Division ADDRESS: 1221 Avenue of the Americas, New York, RY 10020 TITLE: Fleet Owner Puels and Lubricants Survey

1978, February
SPOMSOR: HcGraw-Hill Publications, Fleet Owner
REFFORDS: SURVEYS; MOTOR VEHICLES: LUBRICANTS;
DIESEL FUELS: PUBCHASES; QUESTIONNAIRES;
HAINTENANCE: FUEL CONSUMPTION; TRUCKS: TABLES
(DATA): GASOLINE: FUEL STORAGE
AVAILABILITY: \$25.00

< 401> McKetta, J. TEXAS, University of ADDRESS: Austin, TX TITLE: The Energy Crisis: Fact or Fiction

Paper published in Transportation Research Board Special Report 166, 5-9 1976

1976
KEYMORDS: EMERGY SHORTAGES; IMPORTS; EMERGY
COMSUMPTION; PRODUCTION; PETROLEUM; MATURAL
GAS; COAL; EMERGY DEMAND; RESERVES; EMERGY
SOURCES; GRAPHS (CHARTS)
AVA LABILITY: National Academy of Sciences,
Mational Research Council, Transportation
Research Board, 2101 Constitution Ave. NW,
Washington, DC 20418 \$6.00 for TRB Special
Report 166 \$6.00 for TRB Special

<402> McLean, A.F.: Baker, R.R. Ford Hotor Co. ADDRESS: Dearborn, HI 48121 TITLE: Brittle Materials Design, High Temperature Gas Turbine. Volume 2: Ceramic Turbine Gas Turbine. V

Report No. AMERC TR 78-14, DA-OD 4733, 12th Interim Report for the Period January -September 1977, 93 p.

September 1977, 93 p.
1978, March
SPONSOR: U.S. Dept. of Defense, Army Materials
and Mechanics Research Center; U.S. Dept. of
Energy, Division of Transportation Energy
Conservation

RETWORDS: HATERIALS; DESIGN; GAS TURBINES; CERANICS; ROTORS; TECHNOLOGY; HIGH CEMARICS; NOTORS; TECHNOLOGY; HIGH TEMPERATURE; BRITTLENESS; FABRICATION; SILICON NITRIDES; TESTING; COMPUTER PROGRAMS; TABLES (DATA); GAS TURBINE ENGINES; SILICON CARBIDES; RECHANICAL PROPERTIES; PHOTOGRAPHS; DIAGRAMS AVAILABILITY: NTIS

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< 803> McNutt, R.; Pirkey, D.; Dulla, R. U.S. Dept. of Energy; Energy and Environmental Analysis Inc.
TITLE: Passenger Car Classification Using Interior Volume: A 1978 Up-Date

Paper No. 780133, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Michigan, February 27 - Harch 3, 1978, 24 p.

REYWORDS: AUTOHOBILES; CLASSIFICATIONS; VOLUME; SIZE; WEIGHT; FUEL ECONOMY; DESIGN; PASSENGER TRANSPORTATION; TABLES (DATA)
AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096 \$2.50

<0005 C403>
RCHutt, B.; Pirkey, D.; Dulla, R.; Hiller, C.
U.S. Dept. of Energy; Energy and Environmental
Analysis Inc.
TITLE: A Comparison of Fuel Economy Results from
EPA Tests and Actual In-Use Experience,
1974-1977 Hodel Year Cars

Paper No. 780037, presented at the Society of Automotive Engineers' Congress and

<404> CONT. Exposition, Cobo Hall, Detroit, Hichigan, Pebruary 27 - Harch 3, 1978, 44 p.

TOTAL
RETWORDS: PURL ECONOMY; AUTONOBILES; TESTING;
COMPARATIVE EVALUATIONS; ENVIRONMENTAL
PROTECTION AGENCY; US DOE: MILBAGE;
OPERATION; DRIVING CTCLE; DATA ACQUISITION;
MANUPACTURERS; CLASSIPICATIONS; GRAPHS (CHARTS)

(CHARTS)
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<405> RCWutt, R.D.; Firkey, D.; Dulla, R. Federal Energy Administration ADDRESS: Washington, DC TITLE: Development of a System of Comparable Car Classes for Fuel Economy Labeling

Paper No. 76079%, paper presented at the Society of Automotive Engineers Automobile Engineering Heeting, Dearborn, Michigan, October 18-22, 1976, 38 p.

SPONSOR: Society of Automotive Engineers REYWORDS: AUTOMOBILES; FUEL ECOMONY; COMPARATIVE EVALUATIONS: CLASSIFICATIONS; TABLES (DATA); PUBLIC OPINION; CONSUMERS; PRICES;

PERFORMANCE: GRAPHS (CHARTS): ENVIRONMENTAL PROTECTION AGENCY: SIZE AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096

<406>
Head, W.J.; Rogers, G.W.; Smith, R.Z.
California, University of; Alaska, University of,
 Institute of Social, Economic and
 Governmental Research; U.S. Dept. of State
ADDRESS: CU, Santa Barbara, CA 93109; AU,
 College, AK 99701; USDS, Washington, DC
 20520

TITLE: Transporting Watural Gas from the Arctic: The Alternative Systems

111 p. 1977 SPONSOR: American Enterprise Institute for Public

PROBLET AMERICAN ENTERPRISE INSTITUTE FOR POLICY RESEARCH KEYWORDS: NATURAL GAS; ARCTIC; PRUDHOE BAY (ALASKA); EMVIRONMENTAL IMPACT; TABLES (DATA); HAPS; ECONOMIC ANALYSIS;

(DATA); HAPS; ECONOMIC ANALYSIS; TRAMSPORTATION; GOVERNMENT POLICIES; REGULATIONS; COSTS; CANADA; ALASKA; TRAMSPORTATION SYSTEMS AVAILABILITY: American Enterprise Institute for Public Policy Research, 1150 Seventeenth St. NW, Washington, DC 20036 \$3.25

<407> Rechanical Technology Inc., RSD Division TITLE: Characterization Study of an Electric Hotor-Transmission System for Electric

Report No. NCP/H2835-01, v.p. 1978, Harch SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation RETWORDS: ELECTRIC VEHICLES; PERFORMANCE; DESIGN; ATTOROFILE TRANSMISSIONS; TABLES (DATA); GRAPHS (CHARTS) AVAILABILITY: WTIS

<408>

Report No. PB-263351, DOT-TSC-OST-76-51, 46 p. 1976, December
SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and Technology RBIWORDS: TRAYEL; PORECASTING; AUTOHOBILES; HODRLS; VEHICLE RILES TRAVELED AVAILABILITY: HTIS

<409> <409>
Hencik, Z.; Blumberg, P.W.
Ford Motor Co., Engineering and Research Staff
ADDRESS: Dearborn, HI
TITLE: Representation of Engine Data by
Hulti-Variate Least-Squares Regression

Paper No. 780288, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Michigan, Pebruary 27 - March 3, 1978, 16 p.

RETWORDS: AUTOMOTIVE ENGINES; VELOCITY; PERFORMANCE; DESIGN; LOAD FACTOR; FU ECONOMY; AUTOMOTIVE CONTROL SYSTEMS; REGRESSION AWALYSIS; AUTOHOTIVE EMISSIONS; TABLES (DATA)

AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096 \$2.50

Nencik, Z.; Tobler, W.E.; Blumberg, P.N. Ford Motor Co., Engineering and Research Staff ADDRESS: Dearborn, MI TITLE: Simulation of Wide-Open Throttle Vehicle Performance

Paper No. 780289, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hell, Detroit, Hichigan, February 27 - Harch 3, 1978, 16 p.

1978
REYNORDS: HODELS; COMPUTERIZED SIMULATION;
AUTOHOBILES; VELOCITY; HECHANICAL
TRANSMISSIONS; TIRES; FRICTION; AUTOHOTIVE
ENGINES; PERFORMANCE; GRAPHS (CHARTS)
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

Mercedes-Benz of Worth America Inc., Advertising and Sales Promotion Dept.
ADDRESS: One Mercedes Drive, Hontvale, NJ 07645
TITLE: Directory of Diesel Fuel Stations and
Authorized Hercedes-Benz Dealers

112 p. 1977 RETWORDS: RETAIL TRADE; DIRECTORIES; DIESEL PUELS; STATE AWALYSIS; CAWADA: MAPS; AUTOMOBILES; GAS STATIONS; SALES

<412> < 112> (412) Highdoll, P.; Hahn, W.F. Boor, Allen & Hamilton Inc., Design and Development Division ADDRES: Cleveland, OR 44131 TITUS: Preliminary Power Train Design for a State-of-the-Art Slectric Vehicle

Report No. DOE/WASA/0595-78/1, WASA CR-13541, 140 p.
1978, April
SPONSON: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Electric
and Hybrid Vehicle Systems Program: Mational Aeronautics and Space Administration, Levis Research Center

RESEARCH CERTOR
REFFORDS: PORDS TRAIN SYSTEMS; BLECTRIC VEHICLES;
TECHNOLOGY ASSESSMENT; NOTORS; AUTONOBILS
TRANSMISSIONS; NODELS; DESIGN; COMPUTERIZED
SIMULATION; DIAGRAMS; TABLES (DATA)
AVAILABILITY; NTIS

Hiles, D.L.; Hiepoth, G.W.
General Hotors Corp., Engineering Staff
ADDRESS: Detroit, NI
TITLE: Optimizing Engine and Car Design for Fuel
Economy and Emissions

Paper No. 760855, published in SAR SP-411, 23-32 1978, August SPONSOR: Society of Automotive Engineers, Milvaukee Section RITURNERS SECTION
RETURNS: PUBL ECONONY; AUTOMOTIVE BRGINEERING;
AUTOMOSITES; DESIGN; WITGHT: AUTOMOTIVE
BRISSION CONTROL; PUBL CONSUMPTION; GRAPHS
(CHARTS); PERFORMANCE
AVAILABILITY: Society of Automotive Engineers
Inc., 800 Common wealth Drive, Warrendale, PA
15096 for SAE SP-811

Riine, J.A.; Cantwell, C.; Sissler, M. Chilton Co. ADDRES: Radnor, PA 19089 TITLE: Automobile Characteristics Historical Data 34.50

Report No. DOT-TSC-OST-77-12, 76 p.
1977, August
SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and
Technology: U.S. Dept. of Transportation,
Transportation Systems Center
KEYWORDS: DATA BASSS; HISTORY; AUTONOBILES;
CHARACTSRISTICS; FUEL ECONOMY; PRODUCTION;
TABLES (DATA); AUTONOTIVE EMISSIONS;
HARUFACTURERS; COMPARATIVE SYALDATIONS;
PREPORNANCE: OPERATION: SEGST PERFORMANCE: OPERATION: WEIGHT AVAILABILITY: NTIS

<415> CATOS Rimer, D.K. Copper Development Association Inc. ADDRESS: Birmingham, HI TITLE: Comparison of an Electric Versus a Gasoline Powered Titility Truck in Two Years of a Service Test Program

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KEYWORDS: CORPARATIVE EVALUATIONS: ELECTRIC VENICLES: TESTING: OPERATING COSTS: HAINTENANCE: VANS: PERFORMANCE: FUEL CONSTRUCTO AVAILABILITY: Electric Vehicle Council, 90 Park Ave., New York, NY 10016 \$1.50

CU16> Ritric, S. Ohio State University, Dept. of Civil Engineering ADDRESS: Columbus, Of TITLE: Hethodology of Comparing Hodes in Urban

Paper presented at the Fifty-Sixth Innual Heeting of the Transportation Research Board, Tashington, DC, January 24-28, 1977, 34 p. 1977, January
SPONSOR: Ohio State University, Graduate School
REYNORDS: UNBAN TRANSPORTATION; COMPARATIVE
EVALUATIONS: TRANSPORTATION SYSTEMS; BAIL
TRANSPORTATION; RAPED TRANSIT SYSTEMS; BUSE:
(VERICLES); COSTS; BAY AREA RAPID TRANSIT BUSES

CA17> Nittal, R.K. Union College, Mechanical Engineering Dept. ADDRESS: Schenectedy, NY 12308 TITLE: Energy Intensity of Intercity Passenger Rail

Report No. DOT/RSPD/DP8/50-78/7, 296 p. 1977, December 1977, December SPONSOR: U.S. Dept. of Transportation, Office of SPONSOR: U.S. Dept. Of Transportation, Office of University Research REYMORDS: RAIL TRANSPORTATION; EMERGY INTENSITY; PASSENGER TRANSPORTATION; LOAD PACTOR; INTERCITY TRANSPORTATION; EPPICIENCY; EMERGY CONSUMPTION; RAILROAD CARS; OPERATION; CAPACITY; ELECTRIC RAIL SYSTEMS; AUTOMOBILES; BUSES (VEHICLES); GRAPHS (CHARTS); TABLES (DATA) AVAILABILITY: GPO

CA1R> C4187
Hittal, R.K. (ed.)
Union College
ADDRESS: Schenectady, NY 12308
TITLE: Third National Conference on the Effects
of Energy Constraints on Transportation

Proceedings of a conference held at Union College, Schenectady, New York, August 2-6, 1976, 408 p. 1977, Hay

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SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
REIWORDS: TRANSPORTATION SYSTEMS; EMERGY
COMSUMPTION; EMERGY CONSERVATION; URBAN
TRANSPORTATION; BAY AREA RAPID TRANSIT
SYSTEM; CARGO TRANSPORTATION; RAIL
TRANSPORTATION; BASSENGER TRANSPORTATION;
REGULATIONS; CARPOOLING; TRUCKS; PDEL
ECOMOMY; INTERCITY TRANSPORTATION; RAPID
TRANSIT SISTEMS; AIR TRANSPORTATION; TABLES
(DATA); CONFERENCES; COMPUTERIZED SIMULATION
RVAILABILITY; GPO, Stock No. 060-000-00073-5

< 819> Mittal, R.K.; Rose, A. Union College, Mechanical Engineering Dept. <419> COTT.
ADDRESS: Schenectady, NY 12308
FITLE: Track Data Characteristics for New York
City - Reffalo Corridor

Final Report, Report No. DOT/RSPD/DPB/50-77/09, 89 p.
1977, August
500850R: U.S. Dept. of Transportation, Office of
Thiversity Research
FYYUORDS: EFF TORK CITY: RAIL TRANSPORTATION;
RAILROAD TRACKS; DISTANCE; BUFFALO (NEW
TORK); TRAVEL TIME; EMERGY CONSUMPTION;
EPFICIESCY; AUTOHOBILES; UNBAN
TRANSPORTATION; SPEED LIMITS;
CHAPACTRISTICS: TABLES (DATA); GRAPHS
(CHARTS); COMPARATIVE EVALUATIONS

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Mittal, R.K.; Santamaria, J.
Union College, Mechanical Engineering Dept.
ADDRESS: Schnectady, NT 12308
TITLE: State of the Art in Passenger Pail-Rolling
Stock Equipment

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1977, September
SPONSOR: U.S. Dept. of Transportation, Office of University Research
RETHORDS: RAILBOADS; EQUIPMENT; PASSENGER
TRANSPOPTATION: PERFORMANCE; LOCOHOTIVES;
RAILROAD CARS; PHYSICAL PROPERTIES;
RAILROAD CARS; PHYSICAL PROPERTIES;
GRAPHS (CHARTS): DIAGRAMS; TABLES (DATA);
EFFICIENCY; ANTRAK
AVAILABILITY: HTIS

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Hobley, R.R. (compiler)
General Rotors Corp., Research Laboratories,
Library, System on Automotive Safety
Information
ADDRESS: Warren, RI 48090
TITLE: Bibliography on Electric Vehicles:
1967-1976

Report No. SASI 77-401, v.p.
1977, April 15
KEYWORDS: ELPCTRIC VEHICLES; BIBLIOGRAPHIES;
HISTORY; CONFERENCES; ENVIRONNENTAL INPACT;
GOVERNMENT POLICIES; AUTOROBILES; BUSES
(VEHICLES); RYBRID ELECTRIC-POWERED VEHICLES;
TPUCKS; VANS; BATTERIES

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Honcrief, t.W.: Bouser, T.W.: Pitrak, P.
Bichigan State University, Dept. of Park and
Recreation Resources
ADDRESS: East Lansing, HT
TITLE: The Influence of Gasoline Price and
Availability Upon Recreation Travel Propensity

Communications, 3(5), 931-987
1977
SPONSOR: Upper Great Lakes Regional Commission
RETWORDS: GASOLIER: PRICES: RECREATIONAL TRAVEL;
FIEL CONSUMPTION: TOURISM: GREAT LAKES;
REGIONAL ANALYSIS: INCOME: AUTOHORILES;
ATTITUDES: PUBLIC OPTHION

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Ronford, L.G.
Rational Aeronautics and Space Administration,

Lyndon B. Johnson Space Center
hDDBBSS: Houston, TX 77058
TITLE: Performance Characteristics of a Diesel
Engine Using Low- and Hedius-Energy Gases as
a Fuel Supplement (Funigation)

Report No. N77-14955, NASA TH X-58188, 23 p.
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SPONSOR: Mational Aeronautics and Space
Administration
KBYMORDS: DIESEL ENGINES; SOLID WASTES; ALTERNATE
FUELS; FURIGATION; DIESEL FUELS; PERFORMANCE;
SYNTHETIC FUELS
AVAILABILITY: NTIS

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Boon, A.B.
Stanford Research Institute
ADDRESS: Henlo Park, CA 94025
TITLE: Energy Study of Railroad Freight
Transportation. Volume 2: Industry
Description

SRI Project TCU 5419, 146 p.
1977, August
SPONSOR: Energy Research and Development
Administration
REYWORDS: RAIL TRANSPORTATION; CARGO
TRANSPORTATION; EMERGY CONSUMPTION; EMERGY
CONSERVATION; GOVERNMENT POLICIES;
REGULATIONS; ECONOMICS; EQUIPMENT;
EPFICIENCY; HISTORY; CONSTRUCTION; RAILROADS;
HODELS; COSTS; TRUCKS; REGULATIONS; TABLES
(DATA); GRAPHS (CHARTS)

<426> Hoon, A.B.; Proctor, H.S. Stanford Research Institute ADDRESS: Henlo Park, CA 94025 TITLE: Energy Study of Railroad Freight Transportation. Volume 4: Efficiency Improvements and Industry Puture

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SPONSOR: Energy Research and Development
Administration
RETWORDS: RAIL TRANSPORTATION; CARGO
TRANSPORTATION; EFFICIENCY; FORECASTING;
TECHNOLOGY; REERG CONSERVATION; RARKET;
RESEARCH; BIBLIOGRAPHIES; COSTS; EQUIPMENT

<427>
Noore, R. (ed.)
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. BW, Washington,

A STANDARD

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CNT.
 DC 20418

TITLE: Transportation Programming and Management

Transportation Research Record 585, 7 reports
 prepared for the 58th Annual Meeting of the
 Transportation Research Board, 78 p.

1976
REYWORDS: TRANSPORTATION; MANAGEMENT; HIGHWAYS;
 CONSTRUCTION; PLANWING; SAZETT; PLORIDA;
 WASHINGTON; STATE GOVERNMENT; GOVERNMENT
 POLICIES: TABLES (DATA)

AVAILABILITY: \$3.60

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Worlok, E.R.
Pennsylvania, University of, Civil and Urban Engineering Dept.
ADDRESS: Philadelphia, PA 19174
TITLE: An Engineering Analysis and Comparison of Railroad and Truck Line-Haul Work (Energy) Requirements
Paper presented in the proceedings of the Third Mational Conference on the Effects of Energy Constraints on Transportation Systems, R. R. Mittal (ed.), pp. 81-107; a similar paper entitled "A Comparison of Railroad and Truck Line-Haul Work (Energy) Requirements Under Various Shipment Weight, Speed, and Topographic Conditions" was presented to the Transportation Research Board, January 1976
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KEYWORDS: RAIL TRANSPORTATION; TRUCKS; EMERGY CONSUMPTION; WEIGHT; VELOCITY; EMERGY DEHAND; CONSUMPTION; WEIGHT; VELOCITY; EMERGY DEHAND; COMPARATIVE SYALUATIONS; CARGO
TRANSPORTATION; INTERCITY TRANSPORTATION; FIEL CONSUMPTION; TABLES (DATA); GRAPHS (CHAPTS); ENGINEERING; MODELS; PROPULSION AVAILABILITY; GPO, Stock No. 060-000-00073-5 for entire proceedings

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ADDRESS: 1700 Hain Street, Santa Honica, CA 90406

TITLE: Current Demographic Change in Regions of the United States

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SPOMSOR: U.S. Dept. of Commerce
RETWORDS: DEMOGRAPHY: ECONOMIC IMPACT: REGIONAL AMALYSIS: POPULATION MIGRATION: EDUCATION: SOCIAL PROBLEMS; UNBAM AREAS: EMERGY SHORTAGES: MORTHEASTERM STATES: WESTERM STATES; GREAT LARES; SOUTHERN STATES: WESTERM STATES; POLITICAL OBJECTIVES: RURAL AREAS; PLANNING; STABILITI: GROWTH; STATISTICS; GRAPHS (CHATS): TABLES (DATA): FAMILY LIFE: HAPS; LABOR HIGRATION

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Horrison, P.A.

 CONSERVATION; ECONOMIC AMALYSIS; HANDFACTORERS; GRAPHS (CHARTS); FUEL CONSUMPTION; EMISSIONS; AIR TRANSPORTATION; EXPORTS; WATER TRANSPORTATION; TAXES; RAIL TRANSPORTATION; EMPLOYMENT; EARNINGS; ROADS; ACCIDENTS; VEHICLE REGISTRATIONS; OWNERSHIP; PRODUCTION; VEHICLE NILES TRAVELED

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Rotor Vehicle Manufacturers Association of the U.S. Inc., Statistics Dept.
ADDRESS: 300 New Center Building, Detroit, RI 48202
TITLE: World Motor Vehicle Data: 1977 Edition
Annual publication, 206 p.
1977
KEYWORDS: STATISTICS: VEHICLES: TABLES (DATA);
INTERNATIONAL TRADE; PRODUCTION; EXPORTS;
VEHICLE REGISTRATIONS; AFRICA; ASIA; EUROPE;
IMPORTS: ADSTRALIA; NEW ZEALAND; REGIONAL ANALYSIS; MORTH AMERICA; SOUTH AMERICA

<432> Notor Vehicle Manufacturers Association of the U.S. Inc., Statistics Dept. ADDRESS: Detroit, MI 48202 TITLE: Motor Vehicle Factory Sales from Plants in U.S. & Canada

Weekly publication, Series No. FS-4, v.p.
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BUSES (VEHICLES); STATISTICS; EXPORTS;
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ADDRESS: 4100 Buck Street, Suite 101, Hewport Beach, CA 92660
TITLE: 1978 Hotorcycle Statistical Annual Annual report, 46 p.
1978
KEYWORDS: HOTORCYCLES; STATISTICS; HARKET; YEHICLE REGISTRATIONS; HANDFACTORERS; UTILIZATION; VEHICLE HILES TRAVELED; FINANCIAL DATA; SALES; IMPORTS; OPERATING COSTS; ACCIDENTS; OWNERS; COSTS AVAILABILITY: \$5.00

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Rudge, R.R.; Wheeler, P.K.
U.S. Congress, Congressional Budget Office,
Natural Resources and Commerce Division
ADDRESS: Washington, DC
TITLE: Urban Hass Transportation: Options for
Federal Assistance

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REIWORDS: URBAN TRANSPORTATION; HASS
TRANSPORTATION; GOVERNMENT POLICIES; BUDGETS;
CAPITAL; INVESTMENTS
AVAILABILITY: GPO \$1.65

<435> Rueller Associates Inc.

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Report No. RCP/H2923-01, 132 p.
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Transportation Energy Conservation
RETWORDS: ALTERNATE FUELS; UTILIZATION: ALCOHOL
PUELS; HIGHWAY TRANSPORTATION: HETHANOL;
ETHANOL: TESTING: ENGINES: RHISSIONS;
PTRYORNANCE: PUEL ECONOMY: PUEL CONSUMPTION:
COMPARATIVE EVALUATIONS: PROPERTIES: COSTS:
GRAPHS (CHARTS): WATER
AVAILABILITY: HTIS

CB 365 Mueller Associates Inc. ADDRESS: Baltimore, MD TITLE: Penaturants for Ethanol/Gasoline Blends

Report No. HCP/H2098-01, 16 p. SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation RETWORDS: ETBANOL: GASOLINE: ALTERNATE FUELS; DEBATURANTS

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Rufti, F.K.; Golfin, L.S.; Dougherty, C.D.
Delaware Valley Regional Planning Commission
RDPRESS: Philadelphia, PA
TITLE: Fodal-Choice Analysis of an Exclusive Bus
and Car-Pool Lane (Abridgment)

Paper published in Transportation Research Record 626, 27-291977

1977
SPORSON: U.S. Dept. of Transportation, Pederal Highway Administration; U.S. Dept. of Transportation, Urban Hass Transportation Administration; New Jersey Dept. of Transportation

Transportation
KETWORDS: TRAFFIC CONTROL; HIGHWAY
TRANSPORTATION; BUSES (VEHICLES); CARPOOLING;
HODELS; COMPARATIVE EVALUATIONS
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. RW, Washington, DC 20418
\$2,20 for Transportation Research Record 626

Wundt, P.H. Peat, Harwick, Hitchell and Co. TITLE: Heltiproject Scheduling for Transportation Construction Programs

Report presented at the 54th Annual Meeting of the Transportation Research Board, published in Transportation Research Record 585, 17-24

KEYWORDS: TRANSPORTATION; CONSTRUCTION; SCHEDULING: STATE GOVERNHENT; HANAGENEHT;
FUNDING: FLORIDA; PLANNING
AVAILABILITI: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$3,60 for Transportation Research Record 585

<439> Rundy, R.A.
Tennessee, University of, Transportation Center ADDRESS: Knozville, TW
TITLE: Hass Transit Guidelines Versus a Consumer Orientation in Public Transportation Systems

Paper published in Transportation Research Record 625, 33-37 1977

SPONSOR: Mational Cooperative Highway Research

PROSOR: Batlong Cooperative Agency Program
Program
REYMODDS: HASS TRANSPORTATION; PUBLIC
TRANSPORTATION; CONSUMERS; ATTITUDES; SERVICES
AVAILABILITY: Mational Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$3.20 for Transportation Research Record 625

<440> Hunson, J.S.; Brainard, J.P.
Brookhaven Mational Laboratory, Mational Center
for Analysis of Energy Systems, Policy
Analysis Division
ADDRESS: Upton, BY 11973
TITLE: The Energy Situation in the Mid-Atlantic Region

Report No. BUL 50703, 253 p.
1977, August
SPOMSOR: U.S. Dept. of Energy
KEYFORDS: HIDDLE ATLANTIC STATES; EMERGY
SUPPLIES; EMERGY DEMAND; DISTRICT OF
COLUMBIA; DELAWARE; HARTLAND; NEW JERSEY; NEW
YORK; ORTO; PENNSILVANIA; PURETO RICO;
YIRGINIA; VIRGIN ISLANDS; EMERGY CONSUMPTION;
PETROLEUM; NATURAL GAS; COAL; HUCLEAR EMERGY;
HYDROELECTRIC POWER; TABLES (DATA); REGIONAL
ANALYSIS; STATE ANALYSIS; ELECTRIC UTILITIES;
PRODUCTION; EMPLOYMENT; GRAPMS (CHARTS);
PRICES; ENVIRONMENTAL IMPACT; AIF QUALITY;
WATER QUALITY; EMERGY COMSERVATION;
GOVERNMENT POLICIES; LEGISLATION
AVAILABILITY; NOTICE Report No. BWL 50703, 253 p. AVAILABILITY: NTIS

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U.S. Environmental Protection Agency TITLE: Light Duty Automotive Fuel Economy ... Trends Through 1978

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1978
SPORSOR: Society of Automotive Engineers
RETWORDS: FUEL ECOMONY: AUTOMOBILES: TRUCKS:
STABDARDS: WEIGHT: GRAPHS (CHARTS): HISTORY:
HANDPACTURERS: TABLES (DATA): SALES
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<442> Waill, R.F.; Backus, G.A. Dartmouth College, Thayer School of Engineering ADDRESS: Hanover, NH 03755 TITLE: Evaluating the Wational Energy Plan

Technology Review, 79(8), 51-56
1977, July/August
KETWORDS: MATIONAL EMERGY PLAM: EMERGY POLICY;
EMERGY MODELS: EMERGY CONSERVATION: PETROLEUH; MATURAL GAS; COAL; PRICES; PORECASTING; EMERGY DEMAND; IMPORTS; PRODUCTION; COMPARATIVE EVALUATIONS; GOVERNMENT POLICIES; OPEC; EMERGY COMSUMPTION <443>
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Rational Academy of Sciences, National Research Council, Assembly of Engineering, Energy Engineering Board, Consittee on Advanced Energy Storage Systems
ADDRESS: 2101 Constitution Ave. EW, Washington, DC 20418
FITLE: Development Schedules for Vehicle Energy Storage Systems
19 p.
1977
SPONSOR: Energy Research and Development Adainstration
KEYFORDS: BLECTRIC VEHICLES; DEVELOPMENT;
TRANSPORTATION; LEGISLATION; EMERGY STORAGE;
BATTRIES; FITHERELS; PORECASTING; HYBRID ELECTRIC-POWERED VEHICLES

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Fational Academy of Sciences, Eational Research Council, Assembly of Life Sciences, Committee on Toxicology
ADDRESS: Washington, DC
TITLE: Fuels and Fuel Additives for Highway Vehicles and Their Combustion Products: A Guide to Evaluation of Their Potential Effects on Health

89 p.
1976
SPONSOR: U.S. Environmental Protection Agency
RETWORDS: HIGHWAY TRANSPORTATION; HOTOR VEHICLES;
FIELS; FUEL ADDITIVES; AUTONOTIVE ERISSIONS;
HEALTH HAZARDS; TOXICITY; POLLUTION
REGULATIONS; STANDARDS; TESTING
RVAILABILITY: Mational Academy of Sciences, 2101
Constitution Avenue, Washington, DC 20818

<ast>
Rational Academy of Sciences, Hational Research
Council, Highway Research Board
ADDRESS: 2101 Constitution Ave. NV, Washington,
DC 20418
TITLE: Travel Behavior
Righway Research Record No. 446, papers presented

Righway Research Record No. 486, papers presented at the Pifty-Second Annual Heeting of the Righway Research Board, 66 p. 1973 REYWORDS: TRAVEL; BEHAVIOR; URBAN TRANSPORTATION; DEHAND (ECONOMICS); INTERCITY TRANSPORTATION; WODELS; CHICAGO AVAILABILITY: \$2.20

<486> Wational Academy of Sciences, Mational Research Council, Highway Research Board ADDRESS: 2101 Constitution Ave. BV, Washington, DC 20418 TITLE: Transportation Forecasting

Highway Research Record No. 472, papers presented at the Fifty-Second Annual Reeting of the Highway Research Board, 120 p.
1973
RETHORDS: TRANSPORTATION; FORECASTING; PLANNING; URBAN TRANSPORTATION; RECREATION; PLONING; AUTOROBILES; OWNERS; REGIONAL ANALYSIS; ARE TRANSPORTATION; PASSENGER TRANSPORTATION; TRAVEL; DENAMD (ECONOMICS); SURVEYS; GRAPHS (CHARTS)
AVAILABILITY; \$3.80

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Bational Academy of Sciences, Rational Research
Council, Highway Research Board
ADDRESS: 2101 Constitution Avenue EW, Washington,
DC 20418
TITLE: Highway and Urban Transportation in the
1970's and 1980's

Special Report 122, a panel discussion at the plenery session of the 50th Annual Heeting of the Highway Research Board, January 19, 1971, 23 p.

1971
REYBORDS: HIGHWAY TRANSPORTATION; ORBAN TRANSPORTATION; PORECASTING; SOCIO-ECONOMIC FACTORS; FUNDING; TECHNOLOGY; HOUSING

RRB Special Report 87, 411 p.
1976, September
RETRORS: HIGHWAYS; DESIGN; TRAFFIC CONTROL;
TRAFFIC; VELOCITY; CAPACITY; PRAK-HOUR
DENAND; HIGHWAY TRANSPORTATION; RURAL AREAS;
URBAR AREAS; BUSES (VEHICLES); DELAYS; DAILLY
VARIATIONS; TABLES (DATA); PHOTOGRAPHS;
OPTIRIZATIOP; GRAPHS (CHARTS); CONSTRUCTION
AVAILABILITY: Mational Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$8.00

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Wational Academy of Sciences, Mational Research
Council, Highway Research Board, Advisory
Committee on Movement of Goods in Urban Areas
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Urban Commodity Flow
Widness Research Research Propert No. 120

Highway Research Board Special Beport No. 120, report of a conference held December 6-9, 1970, 207 p.

1971

SPONSOR: U.S. Dept. of Transportation, Office of the Secretary; Canadian Hinistry of Transport KEYNORDS: URBAN TRANSPORTATION; PLANBUNG; CARGO TRANSPORTATION; TRUCKS; INTERCITY TRANSPORTATION; INTRACITY TRANSPORTATION; COSTS; GOVERNMENT POLICIES; FORECASTING; TRAFFIC; LABOR RELATIONS; TONNAGE; TABLES (DATA)

AVAILABILITY: \$6.00

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National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NP, Washington,
DC 20418
TITLE: New Approaches to Travel Forecasting
Transportation Research Record 569, papers
prepared for the 54th Annual Neeting of the
Transportation Research Board, 157 p.
1976
ETWORDS: TRAVEL; PORECASTING; CONFERENCES;
TRAPPIC; PLANNING; BENAVIOR; AUTOMOBILES;
OWNERS; URBAN TRANSPORTATION; MODELS;
SHOPPING; RECREATION; CORNUTTRG; INTERCITY
TRANSPORTATION; DEHARD (ECONORICS); GRAPHS
(CHAPTS)
AVAILABILITY: 86.00

Testional Academy of Sciences, Estional Research Council, Transportation Research Board ADD-1881: 2101 Constitution Ave. NE, Washington, DC 20818 TITLE: Proight Transportation Characteristics

francortation Research Record 591, 53 p. 1874 RETFORDS: CARGO TRANSPORTATION: PLANNING: DENAND (SCONONICS): GREAF TRANSPORTATION: RAIL
TRANSPORTATION: INTERNATIONAL TRADE; TRUCKS
AVAILABILITY: \$2.60

Rational Academy of Sciences, National Research Council, Transportation Research Board ADDRESS: 2101 Constitution Ave. SF, Rashington, CC 20418 TITLE: Air Travel and Aviation Pacilities Planning

Transportation Research Record 529, papers presented at the 54th Annual Heating of the Transportation Research Board, 43 p.

1973
RPTHORDS: AIR TRANSPORTATION; AIRPORTS;
EPTROWNERTAL IMPACT: LAWD USS; MOISE
FOLLUTION; MATER POLLUTION; AIR POLLUTION;
SOLID WASTES; ECONOMICS; MEM TORK CITT;
SOCIAL IMPACT ASSESSMENT; DEMAND (MCOMONICS);
COSTS; GRAPHS (CHARTS); PLANMING; MODELS
AVAILABILITY; \$2.00

<453> Rational Academy of Sciences, Rational Research Council, Transportation Research Board ADDRESS: 2101 Constitution Ave. NR, Washington, DC 20418 TITLE: Travel Behavior and Values

Transportation Research Record 534, papers presented at the 58th Annual Recting of the Transportation Research Board, 75 p. TRAVELY SUBACTOR; POR SCASTING; URBAN TRAVEPORTATION; SOCIO-SCONORIC PACTORS; MATHEMATICAL HODELS; TABLES (DATA); GRAPHS (CHARTS); VALUES AVAILABILITY: \$3.20

Rational Academy of Sciences, National Research Council, Transportation Research Board ADDRESS: 2101 Constitution Ave. NW, Washington, DC 20418 TITLE: The Bicycle as a Transportation Hode

Transportation Research Record 570, 3 reports
prepared for the 53rd Annual Reeting and 6
reports prepared for the 54th Annual Reeting
of the Transportation Research Board, 45 p.

RETWORDS; BICTCLES; TRABSPORTATION; LEGISLATION; PLANNING; DRSIGN; DRVELOPHENT; DRBAN TRAFSPORTATION; SAPETY; BIKENAYS; TABLES (DATA); SINGLATION; NODELS

Fational Academy of Sciences, National Research Council, Transportation Research Board ADDRESS: 2101 Constitution Ave. NW, Washington, DC 20418 TITLE: Planning and Programming for Transportation

Transportation Research Record 574, papers presented at the 54th Annual Heeting of the Transportation Research Board, 58 p.

1976
RETWOODS: PLANKING; TRAVEL; TRANSPORTATION; URBAN TRANSPORTATION; LOS ANGELES; REGIOVAL ANALYSIS; HODELS; SAIGON (VIETNAM); PUBLIC TRANSPORTATION; GRAPHS (CHARTS); TABLES (DATA) AVAILABILITY: \$2.60

<456> Eational Academy of Sciences, National Research Council, Transportation Research Board ADDRESS: 2101 Constitution Ave. SV, Washington, DC 20418 TITLE: Transportation Characteristics of Track, Rail, and Water Freight

Report No. PB-256000, Transportation Research Record No. 577, papers presented at the 58th Annual Reeting of the Transportation Research Board, 51 p.

1976
RETWOODS: TRANSPORTATION; TRUCKS; RAIL
TRANSPORTATION; WATER TRANSPORTATION; BARGES;
INLAND WATERWAYS; CARGO TRANSPORTATION;
TABLES (DATA); GRAPHS (CHARTS); COMMODITIES;
PORECASTING; RAILROADS; WISCOWSIN; STATE
GOVERNMENT; COMPOTERIZED SIMULATION; RAILROAD
CARS; PLAWWING
AVAILABILITY: Transportation Research Board
\$2,20; WIIS 1976

Wational Academy of Sciences, Mational Research Council, Transportation Research Board ADDRESS: 2101 Constitution Avenue NW, Washington, DC 20419
TITLE: Intercity Preight Hovement by Reil and Highway

Transportation Research Record 511, papers presented at the Fifty-Third Annual Heating of the Highway Research Board, ISSF 0-309-02355-6, Nt p.

1974
KETHORDS: CARGO TRANSPORTATION; INTERCITY
TRANSPORTATION; RAIL TRANSPORTATION; SIGNTAT
TRANSPORTATION; MARKET; URBAN TRANSPORTATION;
PLANNING: STATE GOVERNMENT; WISCONSIN
AVAILABILITY: \$2.20

National Academy of Sciences, National Research Council, Transportation Research Board ADDRESS: 2101 Constitution Ave. NW, Washington, DC 20418 TITLE: Travel Demand Porecasting

Transportation Research Record 526, papers presented at the Fifty-Third Annual Heeting of the Highway Research Board, 105 p.

REYNORDS: TRAYEL; DERAMD (RCONOMICS);
PORECASTING; AIR TRAMSPORTATION; URBAN
TRAMSPORTATION; PLANNING; BERAVIOR;
TRAMSPORTATION; PASSENGER TRAMSPORTATION;
HODELS: INTERCITY TRAMSPORTATIOR
AVAILABILITY; \$4, 40

National Academy of Sciences, National Research Council, Transportation Research Board ADDRESS: 2101 Constitution Ave. WW, Washington, DC <859>
<859> COST.
FITUR: Social, Economic, and Environmental Implications in Transportation Planning

Transportation Research Record 583, papers presented for the 58th Annual Heeting of the Transportation Research Board, 95 p.

1976
KETHORDS: SOCIAL IMPACT; ECONOMIC IMPACT;
SOCIO-SCORMIC PACTORS: ENVIRONMENTAL IMPACT;
TRANSPORTATION; PLANNING; GOVERNMENT
POLICIES: TRAVEL; BERAVIOR; RASSACHUSETTS;
PWVIRONMENTAL IMPACT STATEMENTS; ECONOMICS;
AUTOMOBILES; OWNERSHIP; HORTH CAROLINA; URBAN
AR SAS; LOCAL GOVERNMENT; STATE AWALYSIS
AVAILABILITY: 84,00

<460> Mational Academy of Sciences, Mational Research Council, Transportation Research Board ADDRESS: 2101 Constitution Avenue NW, Washington, DC 20418 TITLE: Transit Planning

Transportation Research Record 559, papers prepared for the 54th Annual Heating of the Transportation Research Board, 132 p.

RETWORDS: PLANNING: TAXICADS; RAPID TRANSIT
SYSTEMS; TRANSPORTATION SYSTEMS; PASSENGER
TRANSPORTATION; BUSES (VEHICLES); COMMUTING;
URBAR TRANSPORTATION; COMPARATIVE
EVALUATIONS: BEHAVIOR; COSTS; TRANSPORTATION
DISADVANTAGED; TABLES (DATA); GRAPHS
(CHARTS); ROBAL AREAS; HOBILITY
AVAILABILITY: \$10.00

<461>
Wational Academy of Sciences, Wational Research
 Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue EW, Washington,
 DC 20418
TITLE: Public Transportation Planning

Transportation Research Record 563, papers prepared for the 54th Annual Resting of the Transportation Research Board, 96 p.

1976
KETWORDS: PUBLIC TRANSPORTATION; PLANNING; URBAN
TRANSPORTATION; STATE GOVERNMENT;
LEGISLATION; COSTMERS: ATTITUDES; ATLANTA;
DIAL-A-RIDE; BUSES (VEHICLES); LOCAL
GOVERNMENT; TABLES (DATA); GRAPRS (CHARTS);
CALIFORNIA; BAY AREA RAPID TRANSIT SYSTEM;
PARK-AND-RIDE; TRANSPORTATION DISADVANTAGED;
INDIADA; STATE AWALYSIS
AVAILABILITY: \$8.00

<462> Bational Academy of Sciences, Hational Research Council, Transportation Research Board ADDRESS: 2101 Constitution Avenue HW, Washington, DC 20418 TITLE: Regional Bus Transportation

Transportation Research Record 546, papers prepared for the 54th Annual Heeting of the Transportation Research Board, 63 p.

1975
RETWORDS: REGIONAL ANALYSIS; BUSES (VEHICLES);
PUBLIC TRANSPORTATION; RIGHT-OP-WAY; RAPID
TRANSIT SYSTEMS; CAPACITY; PLANNING; LOS
ANGELES; PASSENGER TRANSPORTATION; LOCAL
GOVERNMENT; URBAN TRANSPORTATION; HIGHWAYS;
TRAPPIC CONTROL
RVAILABILITY: \$2.60

<463> Bational Academy of Sciences, Fational Research Council, Transportation Research Foard ADDRESS: 2101 Constitution Avenue NF, Washington, DC 20418 TITLE: Rail Transit Development

Transportation Research Record 552, papers prepared for the 54th Annual Meeting of the Transportation Research Board, 57 p.

1975
REYMORDS: RAIL TRANSPORTATION; URBAN
TRANSPORTATION; PUBLIC TRANSPORTATION; BAY
AREA RAPID TRANSIT SYSTEM; ENERGY
CONSUMPTION; TRANSPORTATION SYSTEMS; RAPID
TRANSIT SYSTEMS; ECONOMICS; TABLES (DATA);
GRAPPS (CHARTS); EUROPE; REGIONAL ANALYSIS
AVAILABILITY: \$2.60

<464>
Rational Academy of Sciences, Mational Research Council, Transportation Research Soard ADDRESS: 2101 Constitution Ave. NW, Washington, DC 20418
TITLE: Energy Effects, Efficiencies, and Prospects for Various Hodes of Transportation

National Cooperative Highway Research Program Synthesis of Highway Practice 43, 63 p.

1977
SPONSOR: American Association of State Highway and Transportation Officials: U.S. Dept. of Transportation, Pederal Highway Administration RESWORDS: EMERGY COMSUMPTION; PETICIENCY; FORECASTING; TRANSPORTATION; PLANSING; COMPARATIVE EVALUATIONS; PASSENCER TRANSPORTATION; CARGO TRANSPORTATION; EMERGY COMSERVATION; AUTOHOBILES; BUSES (VEHICLES); GRAPHS (CHARTS); TABLES (DATA); RAIL TRANSPORTATION; BICYCLES; WATER TRANSPORTATION; HIGHWAY TRANSPORTATION; PIPELINES; SLURRY PIPELINES
AFAILABILITY; 84,00

<465>
National Academy of Sciences, National Research Council, Transportation Research Board, Commission on Sociotechnical Systems
ADDRESS: Washington, DC
TITLE: Scope and Plan for a Study of Transportation Emergy Research Heeds and Priorities. A Report to the Energy Research and Development Administration

17 p.
1976
SPONSOR: Energy Research and Development
Administration
RETVORDS: PLANNING; TRANSPORTATION; RESEARCH; US
ERDA: EMERGY DEMAND; EMERGY SUPPLIES; EMERGY
RESOURCES; FORECASTING; EMERGY COMSERVATION;
DEMAND (ECONOMICS); GOVERNMENT POLICIES;
SOCIO-ECONOMIC PACTORS
AVAILABILITY: National Academy of Sciences, 2101
Commentation Ave., Washington, DC 20418

<866>
Wational Aeronautics and Space Administration,
Levis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: State-Of-The-Art Assessment of Electric
and Hybrid Vehicles

Report No. NCP/R1011-01, v.p. 1978, January

<466> COHT.
SPONSOR: U.S. Dept. of Emergy, Division of Transportation Emergy Conservation RETYORDS: ELECTRIC VERICLES; HYBRID ELECTRIC-POWERED VEHICLES; HYBRID ELECTRIC-POWERED VEHICLES; BUDIPHENT; TESTING: TABLES (DATA); BATTERIES; SURVEYS; PERFORMANCE; ELECTRIC VERICLE RANGE; BHERGI COMSUMPTION; BELIABILITY
AVAILABILITY: WTIS

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Wational Aeronautics and Space Administration,
Lewis Research Center
ADDRES: Cleveland, OH
TITLE: Twelve State-of-the-Art Individual
Electric and Hybrid Vehicle Test Reports.
Volume I

Report Fo. HCP/M1011-03/1, v.p.
1978, July
SPOWSOR: 7.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYORDS: ELECTRIC VEHICLES: H.BBID
ELECTRIC-POWERED VEHICLES: TESTING: DRIVING
CYCLE: EMERGY CONSUMPTION: PERFORMANCE:
DESIGN: BATTERIES: TABLES (DATA): GRAPHS
(CHERTS): HANDFACTURERS
AVAILABILITY: WIIS

<466>
Wational Association State Directors of Pupil
Transportation Services
TITLE: 1975-76 Statistics on Pupil Transportation

3 P. RETWORDS: STATE AWALYSIS; EXPENDITURES; BUSES (VEHICLES); STATISTICS; OWNERSHIP; SCHOOLS; CHILDTEN

<469>
Rational Petroleum Council
TITLE: Potential for Energy Conservation in the
United States: 1979-1985

204 p.
1975, August 6
SPOE3OR: U.S. Dept. of Interior
REWORDS: BHERGY CONSERVATION: IMBUSTRIAL SECTOR;
TRANSPORTATION; CONNERCIAL SECTOR;
RESIDENTIAL SECTOR: BLECTRIC UTILITIES;
TABLES (CATA); FORECASTING; HEAT PUMPS;
APPLIANCES; SOLAR BERGY; ATTONOBLES; FUEL
COMSUMPTION; EMISSIONS; DESIGN; REGULATIONS;
TECHNOLOGY

<470>
Mational Petroleum News
ADDRESS: 1221 Ave. of the Americas, New York, NY
10020
TITLF: 1978 Mational Petroleum News Factbook Issue

National Petroleum News, 70 (6A), 209 p.
1978, Mid-June
REYMODDS: AIR TRANSPORTATION; STATE ANALYSIS;
FINANCIAL DATA: TIRES: BATTERIES;
DIRECTORIES: WULL OLL: MILEAGE; GAS STATIONS;
AVIATION FUELS: AUTOHORILES: MARRFTING;
TRUCKS; AUTOHORILE DRIVERS; CAPITAL COSTS;
EMERGI DEMAND; AIR POLLOTION; ADVERTISING;
GASOLINE: PETROLEUR; UNLEADED AUTOHOTIVE FUELS

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Helson, P.A.; Chilenskas, A.A.; Steumenberg, R.K.
Argonne Hational Laboratory, Chemical Engineering
Division
ADDRESS: 9700 South Cass Avenue, Argonne, IL
60439
TITLE: The Weed for Development of High-Energy
Batteries for Electric Automobiles

Report No. AVL-8075, 24 p.
1974, November
SPONSOR: U.S. Atomic Energy Commission
RETWORDS: BATTERIES; AIR POLLUTION; PORECASTING;
LITHIUM-SULPUR BATTERIES; ELECTRIC VEHICLES;
ECONOMIC AWALTSIS; COMPARATIVE EVALUATIONS
AVAILABILITY: NTIS

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Revew, A.J.
Rew Tork State Dept. of Transportation, Planning
Division
ADDRESS: State Caspus, Albany, NY 12232
TITLE: Public Opinion Survey on Energy and
Transportation

Preliminary Research Report Ro. 135, 47 p.
1977, December
SPONSOR: U.S. Dept. of Transportation
REYGORDS: SURVEYS; REW YORK; EMERGY COMSERVATION;
TRANSPORTATION; REGIONAL ANALYSIS; AGE
GROUPS; SEX; EMERGY POLICY; PUBLIC OPINION;
HASS TRANSPORTATION; INCENTIVES;
TRANSPORTATION DISADVANTAGED; QUESTIONMAIRES;
GASQLIME: FUEL CONSUMPTION

<473>
Riccoletti, W.
Pederal Energy Administration, Office of Energy Information and Analysis, Consumption Studies Division
ADDRESS: 12th and Pennsylvania Avenue NW, Old Post Office Building, Room 306, Washington, DC 20461
TITLE: Lifestyles and Household Energy Use: 1973 and 1975 Wational Surveys, Code Book and Processing Guide

Report No. PB-272449, FEA/DF-77/001A, 233 p.
1977, September
KEYWORDS: SURVEYS; RESIDENTIAL SECTOR; ENERGY
CONSUMPTION; COSTS; ELECTRIC POWER DEFLAND;
HATURAL GAS; FUEL OIL; SPACE HEATING; AIR
CONDITIONING; WATER HEATERS; LIFE STYLE;
AUTOMOBILES; APPLIANCES; TABLES (DATA);
REGIONAL ANALYSIS; COSTS; POPULATION
(STATISTICS); OWNERS; ATTITUDES; ENERGY
CONSERVATION
AVAILABILITY: NTIS

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Wichols, H.W.
Wational Petroleum Council
ADDRESS: Washington, DC
TITLE: Balancing Requirements for World Oil and
Energy

Chemical Engineering Progress, 70(10), 36-48
1974, October
KEYWORDS: EMERGY DEMAND; PETROLEUM; EMERGY
SUPPLIES; IMPORTS; EMERGY RESOURCES;
PRODUCTION; TABLES (DATA); GROWTH;
INTERNATIONAL TRADE; POSSIL FUELS; SYNTHETIC
FUELS; COAL; GOVERNMENT POLICIES;
FORECASTING; EMERGY CONSUMPTION

<475> Picolaidis, G.C.; Huravski, C.A. General Hotors Corp., Research Laboratories ADDRISS: Warren, HI 48090 TITLE: Analysis of Preference for Hired-Hode

Reprint from Traffic Quarterly, July 1977, 872-896; also available as Research Publication Bo. GHR-2255 1977, July
RETHORDS: ATTITUDES: URBAN TRANSPORTATION;
COMMUTING: MODELS: TABLES (DATA); GRAPHS
(CHARTS): TRAVEL THE: TRAVEL; COSTS;
HIED-MODE TRANSIT

AVAILABILITY: General Sotors Corp., Research Laboratories, Warren NI 48090 for GNR-2255

<476> Boe, L.R. (ed.)
Warketing Handbooks Inc.
ADDRESS: 31 Wallacks Lane, Stamford,
FITLE: Travel Market Fearbook: 1976 06902

Annual publication, 128 p. RETWORDS: TRAVEL; MARKET; AUTOHOBILES; INTERNATIONAL AFALTSIS; TOURISM: ADVERTISING; FORECASTING; TRANSPORTATION; TAXES; AIR TRANSPORTATION; RAIL TRANSPORTATION; PASSENGER TRANSPORTATION; BUSES (VEHICLES); SERVICES; TABLES (DATA) AVAILABILITY: \$26.00

Forman, T.A. U.S. Postal Service ADDRESS: Washington, DC TITLE: Electric-Plywheel Vehicle for Postal Service Applications

Paper Mo. 780297, presented at the Society of Autosotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Hichigan, February 27 - Harch 3, 1978, 8 p. RETWORDS: ELECTRIC VEHICLES: HYBRID

ELECTRIC-POWERED VEHICLES; FLYWHEELS; AUTOMOTIVE FLEETS; EMERGY COMSERVATION; UTILIZATION: POSTAL SERVICE
AVAILABLIST: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendele, PA
15096 \$2.50

(4/9) North Atlantic Treaty Organization, Cosmittee on the Challenges of Hodern Society TITE: Proceedings of the Fourth International Sysposius on Automotive Propulsion Systems. Volumes I and II

"eport Fo. COMF-770430/1, symposium held in Washington, DC, April 18-22, 1977, 1034 p. 1978, February
SPOMSOR: U.S. Dept. of Emergy, Division of Transportation Emergy Conservation
REYWORDS: COMPRENCES; PROPULSION; AUTOHOBILES;
GAS TURBINES; AUTOHOTIVE PUBLS; PUBLS; DIESEL ENGINES; STIRLING ENGINES; RANKING CYCLE ENGIPS; ELECTRIC VERICLES; NYBRID ELECTRIC-POWERE D VERICLES; STRATIFIED CHARGE ENGINES; SPARK IGGITTON ENGINES; AUTOHOTIVE ENISSIONS; POWER TRAIN SYSTEMS
AVAILABILITY: HTIS (when available)

<479> Northwestern University, Transportation Center Library
ADDRESS: Evanston, IL 11973
TITLE: Bibliography for Transportation Energy
Conservation

Report Bo. ANL-76-XI-7, 64 p.
1976, Hay
SPOISOR: Argone Mational Laboratory
REMONDS: BIBLIOGRAPHIES: TRANSPORTATION;
AUTOMOBILES: HASS TRANSPORTATION; AIRCRAFT;
TRUCKS: RAILROADS: BARGES: SHIPS: HABINE
TRANSPORTATION; RAIL TRANSPORTATION; AIR
TRANSPORTATION; PIPELINE TRANSPORTATION;
EMERGY CONSERVATION
AVAILABILITY: NOTS

<480> Obinani, F.C.
Tri-State Regional Planning Commission
ADDRESS: New York, NY
TITLE: Analysis of User Response to the 1975 New York City Transit-Pare Increase (Abridgment)

Paper published in Transportation Research Record 625, 12-14

SPORSOR: U.S. Dept. of Transportation, Federal Highway Administration; U.S. Dept. of Transportation, Urban Hass Transportation Administration; U.S. Dept. of Housing and

Administration; U.S. Dept. of Housing and Urban Development
REYWORDS: NEW YORK CITY: TRANSPORTATION SYSTEMS;
PASSENGER TRANSPORTATION; COSTS; MOBILITY;
SURVEYS; TABLES (DATA); ATTIODES
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$3.20 for Transportation Research Record 625

Odonoi, A.R.; Kivestu, P. Hassachusetts Institute of Technology, Flight Transportation Laboratory
ADDRESS: Cambridge, HA 02139
TITLE: A Handbook for the Estimation of Airside
Delays at Hajor Airports (Quick Approximation
Method)

Report No. HASA CR-2644, 81 p. 1976, June SPONSOR: National Aeronautics and Space Administration, Langley Research Center
REYWORDS: HANDBOOKS; AIRPORTS; DELAYS; COMPUTER
PROGRAMS; GRAPHS (CHARTS); OPERATION;
CAPACITY; PEAK-HOUR DEHAND; TRAFFIC CONTROL
AVAILABILITY: MTIS

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Odum, E.P.; Bramlett, G.A.; Ike, A.; Champlin,
R.; Zieman, J.C.; Shugart, H.R.
Georgia, University of, Institute of Ecology;
Georgia, University of, Institute of
Community and Area Development
TITLE: Totality Indexes for Evaluating
Environmental Impacts of Highway Alternatives

Report presented at the 54th Annual Reeting of the Transportation Research Board, published in "Transportation Energy Conservation," Transportation Research Record 561, 57-67

RETHORDS: ENVIRONMENTAL IMPACT; HIGHWAYS; CONSTRUCTION; GEORGIA; PLANNING; STATE GOTERNMENT; GOVERNMENT POLICIES; PUBLIC OPINION

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RVATLABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Are NW, Washington, DC 20818
\$5.00 for Transportation Research Record 561

Oil and Gas Journal, 75(31), 51-54
1977, August 1
RETWOODS: COAL; COAL GASIPICATION; ALTERNATE
PUBLS; LOW BTU GAS; U-GAS PROCESS; DIAGRAMS;
PUBL OIL; NATURAL GAS; TABLES (DATA); ASHES;
PILOT PLANTS; DEMONSTRATIOF PLANTS

(487)
Olsen, P.J.; Westley, G.W.
Oak Ridge "Mational Laboratory, Energy Division,
Regional and Orban Studies Section: Oak Ridge
Mational Laboratory, Computer Sciences
Division
ADDRESS: Oak Ridge, TN 37830
TITLE: Synthetic Measures of Truck Operating
Times Metween the Hetropolitan Centers of BEA
Momonic Areas: 1950, 1960, and 1970, with
Projections for 1980

Peport No. ORNI-NSF-EP-78, 76 p.
1975, January
SPONSOP: Rational Science Foundation, BANN Program
REYMORYS: TRUCKS; URBAN AREAS; REGIONAL ANALYSIS;
TRANSPOTTATION; DISTANCE; VELOCITY; HIGHWAYS;
TABLES (DATA); HISTORY: FORECASTING;
INTRISTATE TRANSPORTATION; TRAVEL TIME;
MARKET: GROWTH

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Cpinion Pesearch Corp.
ADDPESS: North Harrison Street, Princeton, NJ
085%0
TITLE: Driving and Energy Conservation.
Highlight Report. Volume IXI

Report No. PE-261162, FEA/D-76/483, 28 p.
1976, March
SPONSOR: Federal Energy Administration, Office of
Energy Conservation and Environment
*RYWORDS: EMERGY CONSERVATION: CONHUTING;
SMPYRES: BEHAVIOR: AUTOHOBILE DRIVERS;
REGIONAL ANALYSIS: ATTISTORS: BREGY
CONSUMPTION: CARPOOLING: GASOLINE: FUEL
ECONOMY
AVAILABILITY: HTIS

<485> Ossenbruggen, P.J.; Fishsan, H.H. New Haspshire, University of, College of Engineering and Physical Sciences; Penney (J.C.) Co. Inc., Real Estate Dept. ADDRESS: URH, Durhes, RR; JCPC, New York, NY TITLE: Impact of Transit Line Extension on Residential Land Use

Paper published in Transportation Research Record 627, 10-13
1977
SPOWSOR: U.S. Dept. of Transportation, Urban Hass Transportation Administration
REMORDS: LAND USE: PRESIDENTIAL SECTOR: RAPID TRANSIT SYSTEMS: TRANSPORTATION: REGULATIONS: LAND DEVELOPMENT
LAND LEVELOPMENT
LAND LAND RESEARCH BOARD, 2101
Constitution Ave. RM, Washington, DC 20418
52.70 for Transportation Research Record 627

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Patel, J.G.
Institute of Gas Technology
AppRess: Chicago, IL
FITLP: Clean Fuel from Coal Im Goal of U-Gas

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Paul, P.W.; Regreany, H.J.
Carnegie-Hellon University, Hechanical
Engineering Dept.
ADDRESS: Pittsburgh, PA
TITLE: Applied Studies in Advanced Poiler
Technology for Rankine Cycle Power Systems

Report No. COO/2633-3, v.p.
1978, Pebruary
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
RETHORDS: BOILERS; RANKINE CYCLE POWER SYSTEMS;
DESIGN; COMPARATIVE EVALUATIONS; TESTING;
VAPOR GENERATORS; MODELS; SIMULATION; DIAGRAMS
AVAILABILITY: NTIS

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Pefley, R.K.: Browning, L.H.: HcCormack, H.C.: Hornberger, R.L.: Likos, W.E.: Pullwan, B. Santa Clara University, Dept. of Mechanical Engineering
ADDRESS: Santa Clara, CA 95053
FITLE: Characterization and Research Investigation of Methanol and Methyl Puels

Report No. COO-1258-1, N.E. 77-1, 108 p.
1977, August
SPONSOR: U.S. Environmental Protection Agency,
Notor Vehicle Emission Laboratory; Energy
Research and Development Administration,
Division of Transportation Energy Conservation
RETWORDS: ALTERSTE FUELS; NETRANOL; COMPARATIVE
EVALUATIONS; ERISSIONS; EFFICIENCY; FUEL
ECONOMY; GASOLINE; PERFORMANCE; COMPUTERIZED
SINULATION; GRAPHS (CHARTS); TABLES (DATA);
TESTING
RVALLARILITY; HTIS

<489>
Penner, P.S.
Illinois, University of, Center for Advanced
 Computation
ADDRESS: Urbana, IL 61801
TITLE: The Dollar, Energy and Labor Intensity of
 an Electric Commuter Railroad

CAC Technical Henorandum No. 24, 13 p.
1974, September
KEYWORDS: LABOR INTENSITY; TRANSPORTATION
SYSTEMS; RAIL TRANSPORTATION; EMERGY
COMSUMPTION; FIRMWICHL DATA; LOAD PACTOR;
VEHICLE RILES TRAVELED; PASSENGER
TRANSPORTATION; INTERSYATE TRANSPORTATION;
ELECTRIC RAIL SYSTEMS

<ago>
Permut, R.; Yuchic, Y.R.
Chicago Regional Transportation Authority;
Pennsylvania Trunsportation Authority;
Pennsylvania Trunsersity of, Dept. of
Engineering
ADDRESS: CRTA, Chicago, IL; UP, Philadelphia, PA
TITLE: Evaluation of Alternative Station Spacings
for Rapid Transit Lines (Abridgment)
(Discussion)

Paper published is Transportation Research Record

<491>
Petracek, S.J.
Stanford Research Institute
ADDRESS: Menlo Park, CA 94025
TITLE: Energy Study of Railroad Freight
 Transportation. Volume 3: Regulation and
 Tariff

SRI Project TCU 5419, 101 b.
1977, August
SPONSOR: Energy Research and Development
Administration
REYBORDS: PEGULATIONS; EMERGY CONSUMPTION;
LEGISLATION; EFFICIENCY; RAIL TRANSPORTATION;
CARGO TRANSPORTATION; GOVERNMENT POLICIES;
ECOMORICS: COSTS

<492>
Petrocelli, A.W.; Kennedy, J.H.
Yardney Electric Corp.
ADDRESS: Pawcatuck, CT
TITLE: "he Nickel-Zinc Battery: A Viable
Alternative for Vehicle Powering

Paper presented at the Fourth International
Electric Vehicle Symposium (sponsored by the
Electric Vehicle Council and the
International Union of Producers and
Distributors of Flectrical Energy), held in
Dusseldorf, Germany, August 31 - September 2,
1976, 28 p.
1976, September
KEYWODDS: MICKEL-ZINC BATTERIES; ELECTRIC
VEHICLES; RESEARCH; PERFORMANCE; MODELS;
COMPARATIVE ETALUATIONS; LEAD-ACID BATTERIES;

GRAPHS (CHARTS)
AVAILABITITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

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Petroleum Publishing Co.
ADDRESS: 1921 S. Sheridan Road, Tulsa, OK 74101
TITLE: Petroleum/2000

Oil and Gas Journal, 75(35), 75th Anniversary Issue, 538 p.
1977, August
REYWORDS: PETROLEUM: FORECASTING: EXPLORATION: PRODUCTION: PIPELINES: NATURAL GAS LIQUIDS: REFINING: PETROLEUM REFINING: PETROCHEMICALS: PROCESSING: PETROLEUM INDUSTRY: ALTERNATE FUELS: GRAPMS (CHARTS): HISTORY: LIQUEFIED NATURAL GAS: INTERNATIONAL RELATIONS
AVAILABILITY: \$6.00

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Period May 1, 1977 - November 30, 1977

Report No. COO/4248-1, 23 p.
1977, Howesber
SPONSOP: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
RETYORDS: FUEL ECONOMY: GASOLINE; HYDROGEM;
METHANOL; FUEL INJECTION SYSTEMS; STIRLING
ENGIVES: GAS ENGINES: AUTOHOBILES;
COMPARATIVE EVALUATIONS: DRIVING CYCLE;
HIGHWAY TRANSPORTATION; EMPRGY STORAGE;
VEHICLE TRIPS; TESTING; FUEL CONSUMPTION;
WEHICLE GILES TRAVELED; PHOTOGRAPHS;
AUTOHOBILE OCCUPANCY
AVAILABILITY: NATIS

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Pignan, J.G.; Agent, K.R.; Mayes, J.G.; Zegeer,
C.V.
Kentucky Dept. of Transportation, Bureau of
 Highways
TITLE: Optimal Highway Safety Improvement
 Investments by Dynamic Programming

Report presented at the 59th Annual Heeting of the Transportation Research Board, published in Transportation Research Record 585, 49-59 1976 KEYWORDS: HIGHWAYS; SAFETY; PLANWING; HANAGEMENT; INVESTHENTS; OPTIMIZATION AVAILABILITY: National Academy of Sciences, Transportation Research Board, 2101 Constitution Ave. NW, Washington, pc 20418 \$3.60 for Transportation Research Record 585

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Pipeline and Underground Utilities Construction, 33(7), v.p. 1978, June 15
RETNORDS: CONSTRUCTION; EQUIPMENT; COMPRESSORS; HANDFACTURERS; UTILITIES; EMERGY TRANSPORT; SERVICES; ENGIMEERING; USA; INTERNATIONAL ORGAMIZATIONS; UNDERGROUND FACILITIES; WATEP PIPELINES; PIPELINES; EXCAVATION

<497>
Popular Science
ADDRESS: 380 Madison Ave., New York, NY 10017
TITLE: Motorcamping Handbook 1977

136 p.
1977, Spring
KETWORDS: CAMPERS: RECREATION VEHICLES: HOTOR
HOMES: TRUCKS: TRAVEL: EQUIPMENT: SIZE: PRICES
AVAILABILITY: \$1.50

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Pouliot, H.W.; Robinson, C.W.; Delameter, W.R.
Sandia Laboratories
ADDRESS: Livermore, CA
TITLE: A Variable-Displacement Spark-Ignition
Enoine

Pinal Report, Report No. SAND 77-8299, 108 p.
1978, June
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
RETWORDS: SPARK IGNITION ENGINES; VARIABLE
DISPLACEMENT ENGINES; EXHAUST PECIRCULATION

<498> COFT. SYSTEMS: AUTONOTIVE EMISSIONS: FUEL ECONOMY: HEASUREMENT: TESTING: DRIVING CYCLE: UPBAN TRANSPORTATION: HECHANICS: GRAPHS (CHARTS): DIAGRAMS: HYDROCARBONS: NITROGEN OXIDES AVAILABILITY: GPO, Stock No. 061-000-00108-5

<a99>
Powel, S.F., III; Rosenberg, M.
T.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Wendall Square, Cambridge, HA 02142
TITLE: The Advisability of Regulating Electric
Vehicles for Energy Conservation

Peport No. PB-260667, DOT-TSC-OST-76-37, v.p.
1976, August
SPONSTR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and
Technology, Office of Systems Engineering
KEYWORDS: ELECTRIC VEHICLES; BATTERIES;
PERFORMANCE: LIFE-CYCLE COST: EMERGY
COMSERVATION; GOVERNMENT POLICIES; FUEL
CONSUMPTION; EFFICIENCY; TABLES (DATA);
GRAPMS (CHARTS); COMPARATIVE EVALUATIONS;
ECONOMICS; COSTS; VANS; REGULATIONS; INTERNAL
COMBUSTION ENGINES; EMERGY CONSUMPTION; MARKET
AVAILABILITY; NITS

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Powell, J.D.; Hubbard, M.
Stanford University, Dept. of Aeronautics and
Astronautics
ADDRESS: Stanford, CA 94305
TITLE: Closed-Loop Control of Internal Combustion
Engine Tahaust Taissions

Report No. PB-239850, 63 p.
1974, February
SPORSOR: U.S. Dept. of Transportation, Office of
Systems Engineering, University Research
Program
RETWORDS: AUTOHOTIVE PHISSIONS; INTERNAL
COMPRISTION ENGINES; PUBL-AIR RATIO; CONTROL
EQUIPMENT: DESIGN: COMPARATIVE EVALUATIONS
AVAILABILITY: NTIS

C501>
Pozdena, R.J.
Stanford Research Institute
ADDRESS: 333 Reversivood Avenue, Menlo Park, CA
94025

TITLE: Porecasts of Aircraft Activity by
Altitude, World Region, and Aircraft Type

Report Po. PAA-AVP-76-18, Forecasts of Worldwide
Aviation Activity, 132 p.
1976, November
SPONSOF: U.S. Dept. of Transportation, Federal
Aviation Administration, Office of Aviation
Policy
RETWORDS: FORECASTING; AIRCRAFT; ECONOMETRIC
MODELS: REGIONAL ANALYSIS; OPERATING COSTS;
INTERNATIONAL TRAVEL; PASSENGER
TRAFSPORTATION; TABLES (DATA); GROWTH; DATA
BASES; STATISTICS; CARGO TRANSPORTATION;
HISTORY; HODELS
AVAILABILITY: NTIS

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Pratt (R.H.) Associates Inc.
ADDRPSS: 10400 Connecticut Avenue, Kensington, ND
20795

TITLE: The Potential for Transit as an Energy Saving Option

1975, November
SPONSOR: Federal Energy Administration
RETHORDS: PUBLIC TRANSPORTATIOF; URBAN
TRANSPORTATION; EMERGY CONSUMPTION; EMERGY
COMSERVATION; VEHICLE HILES TRAVELED;
AUTOMOBILES; REGIONAL ANALYSIS; PASSENGER
TRANSPORTATION; GRAPHS (CHARTS); TABLES
(DATA); HODELS; EFFICIENCY; BALTINORE
(HARFILAND); CHICAGO; SAM DIEGO; ALBUQUERQUE;
SOCIO-ECOHOMIC FACTORS; HASS TRANSPORTATION;
GOVERNMENT POLICIES; BUSES (VEHICLES); RAIL
TRANSPORTATION; STATE ANALYSIS

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Presidential Task Force on Reform of Federal Energy Administration Regulations
ADDRESS: Washington, DC
TITLE: Report of the Presidential Task Force on Reform of Federal Energy Administration Regulations. Volume 1 and Volume 2, Appendices

1976, December
REYWORDS: REGULATIONS; LEGISLATION; GOVERNHENT
POLICIES; HISTORY; PROPARE; NATURAL GAS; FUEL
OIL; PETROLEUM INDUSTRY; IMPORTS;
ALLOCATIONS; ENERGY SUPPLIES; PETROLEUM;
PRICES; COSTS; ENERGY SHORTAGES; REFINING;
LEGAL ASPECTS; US FEA; CONSUMERS; TABLES
(DATA)

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Public Technology Inc.; Urban Consortium for Technology Initiatives, Transportation Task Force
ADDRESS: 1140 Connecticut Avenue NP, Vashington, DC 20036
TITLE: Transportation Needs Summary
32 p.
1976, September
SPONSOR: U.S. Dept. of Transportation, Urban Mass
Transportation Administration: U.S. Dept. of

SPONSOR: U.S. Dept. of Transportation, Urban Mass Transportation Administration; U.S. Dept. of Transportation, Federal Highway Administration KEYWORDS: TRANSPORTATION; RESEARCH; ASPRALTS; TRANSPORTATION SYSTEMS; PARATRANSIT; HIGHWAYS; BUSES (VEHICLES); PLANNING; MASS TRANSPORTATION; AIR TRANSPORTATION; TRAFFIC CONTROL

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Pucher, J.; Rothenberg, J.
Massachusetts Institute of Technology, Dept. of
 Urban Studies and Planning
ADDRESS: Cambridge, MA 02139
TITLE: Pricing in Urban Transportation: A Survey
 of Papirical Evidence on the Elasticity of
 Travel Demand

Report Ho. MIT 76~014, 133 p.
1976, July
REYMORDS: URBAN TRANSPORTATION; PRICES; RATES
(COSTS); HODELS; ELASTICITY (ECONOMICS);
GASOLIME; DEBAND (ECONOMICS); ENERGY
CONSPRYATION; INCOME; TABLES (DATA); ENERGY
CONSUMPTION
AVAILABILITY: HIT, Center for Transportation
Studies, 77 Massachucetts Avenue, Cambridge,
HA 02139 \$6.00

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Pucher, J.R.
Rassachusetts Institute of .uchnology, Dept. of
Wrban Studies and Planning
ADDRESS: Cambridge, NA 02139
TITLE: Projections of 1980 Freight Demands for
Selected Hidvestern Railroads

Report No. DOT-TST-76T-40, 130 p.
1976, September
SPOMSOR: U.S. Dept. of Transportation, Office of University Research
RETWORDS: FORECASTING; BAIL TRANSPORTATION;
RAILROADS; HIDDESTERN STATES; CARGO
TRANSPORTATION; COSTS; TABLES (DATA); HAPS;
COHMODITIES; IMPUT-OUTPUT ANALYSIS; REGIONAL ARALYSIS; HISTORY
AVAILABILITY: BTIS

Purdue University, Institute for
Interdisciplinary Engineering Studies
ADDRESS: West Lafayette, IM
ITILE: Opportunity and Risk Assessment of the
Electric and Hybrid Vehicle Research,
Development and Demonstration Act of 1976

Report No. HCP/H9250-01 (Previously issued as
COO-0250-1), 327 p.

1978, January
PPONSOR: U.S. Dept. of Energy Division of
Transportation Energy Conservation
REYWORDS: ELECTRIC VEHICLES: HYBRID
ELECTRIC-POWERED VEHICLES: COMMERCIALIZATION;
ENERGY DEMAND; COSTS; PERFORMANCE: TABLES
(DATA): ELECTRIC VEHICLE RANGE;
TRANSPORTATION; PETROLEUM: ENERGY
COFSERVATION; TECHNOLOGY ASSESSMENT;
INSTITUTIONAL FACTORS: SAFETY
AVAILABILITY: HTIS

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Pushkarev, R.S.; Zupan, J.H.
Regional Plan Association
ADDRESS: 235 East 45 Street, New York 10017
TITLE: Power for the RTA: An Bassination of
Future Ridership, Seyvica, and Electric Power
Requirements for Hetropolitan Transportation
Authority Facilities

RPA Bulletin 126, 90 p.
1977, June
SPONSOR: New York State Power Authority
VETVORDS: NEW YORK CITT; WAIL TRANSPORTATION;
ELECTRIC POWER DEBAND; ENPLOYMENT; CORNUTERS;
PUBLIC TRANSPORTATION; URBAN TRANSPORTATION;
AUTOHOBILES; REGIONAL ANALYSIS; PEAK-ROUR
DEHAND; ELECTRIC VEHICLES; GRAPHS (CHARTS);
EAPID TRANSIT SYSTEMS; TABLES (DATA);
PLANNING; EQUIPHENT; SUBWAYS; AIR
CONDITIONING; REGENERATIVE BRAKING; HASS
TRANSPORTATION

<509>
Rabe, P.T.
Environmental Impact Center Inc.
ADDRPSS: 55 Chapel Street, Newton, NA 02158
TITLE: Uncertainties in Estimates of Pleet
Average Fuel Economy: A Statistical

Report No. DOT-TSC-OST-77-32, 66 p.
1977, June
SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and
Technology: U.S. Dept. of Transportation,
Transportation Systems Center

REYWORDS: AUTOHOTIVE FLEETS; PUEL ECONOMY; PUEL CONSUMPTION; TABLES (DATA); STRATIFICATION; ESTIMATES; STATISTICAL AWALYSIS; TESTING AVAILABILITY: NYIS

Report No. DOT-TSC-0ST-77-25, 56 p.
1977, August
570RSOR: U.S. Dept. of Transportation,
Transportation Systems Center; U.S. Dept. of
Transportation, Office of the Secretary,
Office of the Assistant Secretary for Systems
Development and Technology, Office of Systems
Engineering
REYHORDS: VEHICLE HILES TRAVELED; FORECASTING;
TRAVEL; AUTOROBILES; HODELS; RESEARCH; DATA
ACQUISITION; ESTIMATES; COSTS
AVAILABILITY: NTIS

<511>
Rabe, F.T.
Bavironmental Impact Center Inc.
ADDRESS: 55 Chapel Street, Newton, MA 02158
TITLE: Dynamic Hodels of the U.S. Automobile Fleet
Report No. DOT-TSC-0ST-77-26, 46 p.

1977, August
SPONSOR: U.S. Dept. of Transportation,
Transportation Systems Center: U.S. Dept. of
Transportation, Office of the Secretary,
Office of the Assistant Secretary for Systems
Development and Technology, Office of Systems
Engineering
KBYWORDS: **ODELS; SALES; COMPUTERIZED SIMULATION;
GASOLINE; PRICES; FORECASTING; DEMAND
(ECOMONICS); TRANSPORTATION; AUTOMOBILES;
PRICES; SIZE; OWNERS
AVAILABILITY: HTIS

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Raschbichler, H.G.
Scitran
ADDRESS: Box 5456, Santa Barbara, CA 93108
TITLE: Technical and Economical Considerations of
the Use of Self-Supporting Plastic Sandwich
Constructions in Electrical Vehicles

The second secon

Report No. N76-14205, NASA-TT-F-16824, 15 p.;
Translation from Elektrotechnische
Zeitschrift Ausg. A, 94(11), 679-682
1975, December
SPONSOR: National Aeronautics and Space
Administration
KEYWORDS: ELECTRIC VEHICLES; PLASTICS; ECONOMIC
ANALYSIS; PRODUCTION; DESIGN
AVAILABILITY: NTIS

<513> Rechel, R. TITLE: Transportation Policies and Energy Conservation

An Issue Report, 71 p.
1976
REIWORDS: TRANSPORTATION; EMERGY CONSERVATION;
GOVERNMENT POLICIES; TRANSPORTATION HODE
CHOICE; PUEL COMSUMPTION; REGULATIONS;
RIGHWAY TRANSPORTATION; SERVICES; CARGO

<513> COFT. TRANSPORTATION; PUBLIC TRANSPORTATION; RAIL TRANSPORTATION; URBAN TRANSPORTATION; AIR TRANSPORTATION; PIPPLINE TRANSPORTATION; PIPPLINE TRANSPORTATION; ECONOMIC IMPACT; BY PENDITURES

AVAILABILITY: The Conservation Poundation, 1717
Passachusetts Avenue, N.W., Washington, DC
20036

<514> (51%)
Recker, W.W.; Golob, T.P.
California, University of, Institute for Transportation Studies; General Motors Corp., Research Laboratories, Transportation and Trban Analysis Dept.
https://doi.org/10.1006/j.jpp.1006/j.pp.1006/j.

ADDRESS: CN, Irvine, CA; GHCRL, Warren, HI 48090 TITLE: A Won-Compensatory Hodel of Transportation Behavior Based on Sequential Consideration of Attributes

Peport No. GHR-2621, 23 p.
1978, January 10
KEYWORDS: TRANSPORTATION; HODELS; BERAVIOR;
DECISIONS: ATTITUDES; SHOPPING TRIPS: URBAN
TRANSPORTATION; VEHICLES

<515> Recreation Vehicle Industry Association ADDRESS: Box 204, 14650 Lee Rd., Chantilly, VA 22021 TITLE: RV Financial Facts

Quarterly publication, approximately 4 p. RETWORDS: FINANCIAL DATA: RECREATION VEHICLES: PRODUCTION; SALES; INDUSTRIES; INFORMATION

<516> Recreation Vehicle Industry Association ADDRESS: P.O. Box 204, 14650 Lee Road, Chantilly, VA 22021 VA 22021 TITLE: Pecreation Vehicle Figures, Pacts and Porecasts: 1961 - 1981

Paper presented at seminar held at the Essex House Hotel, New York, NY, on March 31, 1977, 11 p. 1077 SPONSOR: Mitchell, Mutchins Inc.
RFTWORDS: PECREATION VEHICLES; FORECASTING;
TRAILERS; CAMPERS; MOTOR HOMES; TABLES

Recreation Vehicle Industry Association,
Marketing and Public Relations Departments
ADDRESS: 14650 Lee Road, Chantilly, Va 22020
TITLE: Pacts and Trends 1977: 5th Annual
Bistorical Review of Production and Shipments
of the Recreation Vehicle Industry

Annual publication, 9 p. RETUORDS: RECREATION; PORECASTING; RECREATION VRHICLES; INDUSTRIES; PRICES; PRODUCTION; SALES; HARRET; TABLES (DATA); GRAPHS (CHAPTS); ENERGY DEMAND; MOTOR NOMES; TRAILERS; CAMPERS; TRUCKS; REGIONAL ANALYSIS

Reed, H. n.; Roos, N.; Wolfe, H.; Digregorio, R. U.S. Dept. of Transportation, Transportation Systems Center
ADDRESS: Rendall Square, Cambridge, HA (
TITLE: A Study of the Costs and Benefits
Associated with AVH

Report No. PB-266293, UHTA-HA-06-0041-77-1, DOT-TSC-UHTA-77-5, 256 p. 1977, February DOT-TSC-UHTA-77-5, 256 p.
1977, February
SPONSOR: U.S. Dept. of Transportation, Urban Hass
Transportation Administration, Office of
Technology Development and Deployment
KEYNORDS: TRANSPORTATION; TRCHNOLOGY; COSTS;
HAINTENNCE; OPERATING COSTS; BUSES
(VEHICLES); TAXICABS; BENEFIT COST AWALYSIS;
TABLES (DATA); GADHS (CHARTS); ENERGY
CONSERVATION; HOWITORING; AUTOMATIC VEHICLE
HONITORING: URBAN TRUNSPORTATION: AUTOMOTIVE HONITORING; URBAN TRANSPORTATION; AUTOMOTIVE

AVAILABILITY: MTIS

Regional Plan Association ADDRESS: 235 East 45 Street, New York, NY 10017 TITLE: Where Transit Works: Urban Densities for

Regional Plan News No. 99, 24 p. 1976, August SPONSOR: Tri-State Regional Planning Commission; U.S. Dept. of Transportation, Urban Hass Transportation Administration; Ford Foundation; Rockefeller Foundation
KEYWORDS: URBAN AREAS; PUBLIC TRANSPORTATION; COSTS; BUSES (VEHICLES): RAPID TRANSIT SYSTEMS; COMMUTERS; COMMUNITY DEVELOPMENT; LAND USE: PHOTOGRAPHS: GRAPHS (CHARTS)

<520> Requeiro, J.F.
John Deere Product Engineering Center
ADDRESS: Hollne, IL 61265
TITLE: Engine Developments and Agricultural
Equipment Fuel Consumption Trends

Paper No. 760853, published in SAE SP-411, 1-10 1976, August SPONSOR: Society of Automotive Engineers Inc., Milwaukee Section KEYWORDS: FARM EQUIPMENT; TRACTORS; AGRICULTURE; DIESEL ENGINES; FUEL CONSUMPTION; DESIGN; PRODUCTION; GRAPHS (CHARTS)

AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 for SaE SP-411

<521> Reichman, S. Reachmen, 5. Hebrew University ADDRESS: Jerusalen, Israel TITLE: Conceptual Problems in Evaluation of

Paper published in Transportation Research Record 587, 24-29 1976 1976
SPONSOR: National Academy of Sciences,
Transportation Research Board
REFRORDS: TRAVEL TIME: ECONOMIC AFALYSIS;
CONSUMERS: BEHAVIOR: RESEARCH
AVAILABILITY: Mational Academy of Sciences,
Transportation Research Board, 2101
Constitution Are. ST, Washington, DC 20418
\$2.40 for Transportation Research Record 587

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(DATA) : SALES

<522> <522> Reichman, S.; Stopher, P.R.
Rebrew University; Cornell University
ADDRESS: RU, Jerusales, Israel; CU, Ithaca, HY
TITLE: Applications of Value of Travel Time to
Travel Demand Estimation

Paper published in Transportation Research Record 587, 6-11 1976 SPONSOR: Mational Academy of Sciences,
Transportation Research Board
REYWORDS: TRAVEL TIME: URBAN TRANSPORTATION;
HODELS: VEHICLE TRIPS: COSTS; INTERCITY TRANSPORTATION

AVAILABILITY: National Academy of Sciences. Transportation Research Board, 2101 Constitution Avenue. NW, Washington, DC 20418 \$2.40 for Transportation Research Record 587

Reilly, J. Capital District Transportation Authority ADDRESS: Albany, NY TITLE: Transit Costs During Peak and Off-Peak Hours

Paper presented at the 1977 Annual Heeting of the Transportation Pesearch Board, held in Washington, DC, January 1977 1977, January
KEYWORDS: COSTS; PATES (COSTS); DEHAND
(ECONOMICS); HASS TRANSPORTATION

Reilly, J.J.; Wiswall, R.H.; Waide, C.H. Brookhaven Mational Laboratory, Dept. of Applied Science ADDRESS: Tpton, NY 11973 TITLE: Hotor Vehicle Storage of Hydrogen Using Metal Hydrides. Final Report

EVALUATIONS: TABLES (DATA); DIAGRAMS; ALTERNATE FUELS AVAILABILITY: HTIS

<575> Reister, D.B. Institute for Energy Analysis ADDRESS: Oak Ridge, TN 37830 TITLE: The Total Energy Cost of Freight Transport

Report No. ORAU/IEA(M)-77-7, v.p. 1977, Pebruary SPONSOR: Energy Research and Development Administration
RETHORDS: COSTS; EMERGY COMSUMPTION; CARGO
TRANSPORTATION; MET EMERGY; RAIL
TRANSPORTATION; WATER TRANSPORTATION; TRUCKS;
INTERCITY TRANSPORTATION; AIR TRANSPORTATION;
IMPUT-OUTPUT AMALYSIS; COMPARATIVE EVALUATIONS

<526> Renshaw, V.: Priedenberg, H.L.: Levine, B. U.S. Dept. of Commerce, Bureau of Economic Analysis

ADDRESS: Washington, DC TITLE: Work-Force Higration Patterns, 1970-76

Reprint from Survey of Current Business, February 1978, 17-20 1978, February REYMORDS: HIGRATION; EMPLOYMENT; REGIONAL ANALYSIS: SOCIO-ECONOMIC PACTORS; EARNINGS; TABLES (DATA); LABOR MIGRATION; URBAN AREAS; STATE ANALYSIS; BURAL AREAS

<527> <527>
Rice, P.L.
Oak Ridge National Laboratory, Energy Division,
Regional and Urban Studies Section
ADDRESS: Oak Ridge, TH 37830
TITLE: Energy Conditions in the South

Report No. ORNL/TH-5568, 338 p. 1976, December SPONSOF: Energy Research and Development SPONSOF: Energy Research and Development
Administration
KEYMORDS: EMERGY DEMAND; EMERGY SUPPLIES; EMERGY
RESOURCES; TABLES (DATA); MAPS; MATURAL GAS;
PETROLEUM; COAL; HYDROELECTRIC POWER; HUCLEAR
POWER; PETROLEUM PRODUCTS; ALABAMA; ARKAMSAS;
FLORIDA; GEORGIA; KENTUCKY; LOUISIAWA;
MISSISSIPPI; MORTH CAROLINA; OKLAHOMA; SOUTH
CAROLINA; TENNESSEE; TEXAS; VIRGINIA; WEST
VIRGINIA; SOUTHERN STATES; REGIONAL AWALYSIS;
STATE AWALYSIS

STATE AWALYSTS AVAILABILITY: NTIS

<528> C5287
Rice, P.L.
Oak Ridge Mational laboratory, Energy Division,
Economic Analysis Section
ADDRESS: Oak Ridge, TH 37830
TITLE: 1975 Energy Conditions in the South

Report No. ORNL/TH-6190, 254 p.
1978, March
SPONSOR: U.S. Dept. of Energy
KETWORDS: SOUTHERN STATES; STATE ANALYSIS; EMERGY
SUPPLIES; NATURAL GAS; PETROLEUM; COAL;
EMERGY RESERVES; EMERGY CONSUMPTION; REGIONAL
ANALYSIS; HYDROELECTRIC POWER; RESIDENTIAL
EMERGY. COMMERCIAL STRONG. RECTOR: COMMERCIAL SECTOR: INDSTRIAL SECTOR: TRANSPORTATION; ELECTRIC UTILITIES; PRODUCTION; TABLES (DATA); EMERGY DEMAND; BLECTRIC POWER DEMAND AVAILABILITY: NTIS

<529> Rice. R.G. RICE, R.G.
Toronto, University of, Dept. of Civil Engineering
ADDRESS: Toronto, Canada
TITLE: Evaluation of Road and Transit System
Requirements for Alternative Urban Forms

Paper prepared for presentation at the Annual Meeting of the Transportation Research Board, 29 p. 1978, January REYWORDS: URBAN AREAS; LAND USE; MODELS; TRANSPORTATION; PLANNING; TRAVEL; VEHICLE

C3307
Riddell, F.R.; Oliver, R.C.; Reichenbach, R.E.
Institute for Defense Analyses, Science and
Technology Division
ADDRESS: 400 Army-Navy Drive, Arlington, VA 22202
fITLE: DOD Energy R & D. Part II: Hilitary

<530> CONT. Fuel Options -- Performance and R 5 D Implications

Peport *o. AD/A 042272, IDA Paper P-1116, 108 p. 1977, March

1977, March
SPONSOR: U.S. Dept. of Defense, Defense Advanced
Research Projects Agency; U.S. Dept. of
Defense, Office of the Director of Defense
**Pessarch and Engineering
RETPOPDS: MILITARY; FUELS; CONSUMPTION; EMERGY
HANACEMENT; FORECASTING; PETROLEUH; SYMTHETIC
FUELS; AVIATION FUELS; TABLES (DATA); OIL
SHALE; HYDROCARBOWS; ALTERNATE FUELS;
RESPARCH; DEVELOPMENT; ENGINES; TRANSPORTATION
AVAILABILITY: MTIS

Rieber, M.; Soo, S.L.; King, P.; King, Y.T.; teung, T.; Wu, H.; Wu, J. Illinois, University of, Center for Advanced Computation

COMPUTATION
ADDRESS: Urbana, IL 61801
TITLE: Comparative Coal Transportation Costs:
Economic and Engineering Analysis of Truck,
Belt, Rail, Barge and Coal Slurry and
Pneumatic Pipelines. Volumes 1-8

CAC Document No. 223; Report Nos. PB-274379, 93
p. for Volume 1; PB-274380, 114 p. for Volume
2; PB-274381, 58 p. for Volume 3; PB-274382,
96 p. for Volume 4; PB-274383, 384 p. for
Volume 5; PB-274384, 65 p. for Volume 6;
PB-274385, 78 p. for Volume 7; PB-274386, 15
p. for Volume 8 p. for Vo

1977, August
SPOMSDR: U.S. Dept. of Interior, Bureau of Mines;
Federal Energy Administration
EUWORDS: COAL; TRAMSPORTATION; COSTS; ECONOMICS;
TRUCKS; RALL TRAMSPORTATION; SLURRIES;
BARGES; PIPELINE TRAMSPORTATION; PNEUMATIC DARNOS; PIPEDINE TRANSPORTATION; PROGNATIC TRANSPORT; CONVETORS; COMPARATIVE EVALUATIONS; HODELS; CAPITAL COSTS; OPERATING COSTS; TARLES (DATA); GRAPHS (CHARTS); WATERWAY TRANSPORTATION; REGIONAL ANALYSIS; E GIMEERING; CARGO TRANSPORTATION AVAILABILITY: NTIS

Rinde, J.A.: Chiao, T.T.: Stone, R.G. Lawrence Livermore Laboratory ADDRESS: University of California, Livermore, CA 94 550 TITLE: Composite Fiber Flywheel for Energy Storage

Paper published in 8th National SAMPE (Society for the Advancement of Haterials and Process Engineering) Technical Conference. Volume 8. Bicentennial of Materials, pp. 25-43; conference held October 12-14, 1976 in Seattle, Washington

1976, October SPONSOR: Energy Research and Development Administration

RTHORDS: PLIWHEELS; ENERGY STORAGE; COMPOSITE MATERIALS; PIRERS; DESIGN; DEVELOPMENT; UTILIZATION; HYBRID BLECTRIC-POWERED PHICLES; LAWRENCE LIVERHORE LABORATORY; PHYSICAL PROPRETIES; RESEARCH PROGRAMS; TABLES (DATA) : GRAPHS (CHARTS)

Ring, S.L.; Prewer, R.A.; Butler, D.L. Iowa State University, Civil Engineering and Engineering Research Institute
ADDRESS: Ames, IA
**TITLE: Fvaluation of Interaction Between Rural
Regional Transportation and Emergy Availability

Report presented at the 54th Annual Heeting of the Transportation Research Board, published in "Transportation Energy Conservation and Deaand," Transportation Research Record 561, 12-22

SPONSOR: U.S. Dept. of Transportation, Office of

SPUBSOR: U.S. Dept. OF TRANSPORTATION, UTILES OF University Research KEYWORDS: RUBAL AREAS; BURAL TRAMSPORTATION; RAIL TRAMSPORTATION; POOD; TRAMSPORTATION; SOCIO-ECONORIC FACTORS; RAILROADS; HAPS; IOWA: ELECTRIC POWER GENERATION: AGRICULTURE; BEGIONAL ANALYSIS; LIFE STYLE; STATE GOVERNMENT; GOVERNMENT POLICIES AVAILABILITY: National Academy of Sciences,

Transportation Research Board, 2101 Constitution Ave. NW, Washington, DC 20418 \$5.00 for Transportation Research Record 561

(534)
Rishavy, E.A.; Hamilton, S.C.; Ayers, J.A.;
Keane, M.A.
General Motors Corp., Chevrolet Engineering;
General Motors Corp., Research Laboratories
ADDRESS: Warren, MI 48090
TITLE: Engine Control Optimization for Best Fuel
Economy with Emission Constraints

Paper No. 770075, presented at the Society of Automotive Engineers' International Automotive Engineering Congress and Exposition, Cobo Hall, Detroit, Michigan, Pebruary 28-March 4, 1977, 20 p.

SPONSOR: Society of Automotive Engineers
KETWORDS: FUEL ECONOMY; COMPUTER PROGRAMS;
AUTOMOTIVE EMISSIONS; TESTING; ENGINES;
CATALYTIC CONVERTERS; TABLES (DATA);
COMPARATIVE EVALUATIONS; PERFORMANCE; GRAPHS
(CHAPTS); OPTIMIZATION; AUTOMOTIVE EMISSION
COMPANCE.

AVAILABILITY: Society of Automotive Engineers, Inc., 400 Commonwealth Drive, Warrendale, PA 15096

<535> Solution
Solution
Florida, University of, Dept. of Mechanical
Engineering
ADDRESS: Gainesville, PL
TITLE: The Design and Development of a
Hybrid-Electric Urban Transit Vehicle

Paper presented at the Fourth International Electric Vehicle Symposium (sponsored by the Electric Vehicle Council and the International Union of Producers and

International Union of Producers and
Distributors of Electrical Energy), held in
Dusseldorf, Germany, August 31 - September 2,
1976, 25 p.
1976, September
SPONSOR: Florida Dept. of Transportation
REYMORDS: ELECTRIC VEHICLES; URBAN
TRANSPORTATION; BUSES (VEHICLES); HYBRID
ELECTRIC-POWRRED VEHICLES; DESIGN;
COMPUTERIZED SIMULATION; DRAG; DIESEL
ENGINES; TESTING; ROAD TESTS; AERODYNAMICS;
GRAPPS (CHARTS)

GRAPHS (CHARTS)
AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

<536> Roberts, P.O. Massachusetts Institute of Technology, Center for Transportation Studies
ADDRESS: Cambridge, RA 02139

<536> <536> COBT. TITLE: Pactors Influencing the Demand for Goods Novement

CTS Report No. 75-16, Working Paper No. 1, 34 p.
1975, September
SPONSOR: U.S. Dept. of Transportation, Office of University Research
REYWORDS: CARGO TRANSPORTATION; HARKET;
DISTRIBUTION; COSTS; CONSUMERS; DEMAND (ECONOMICS); PURCHASING; GRAPHS (CHARTS); INVESTORIES; TABLES (DATA); ECONOMIC ANALYSIS; HOUBLS; SYSTEMS ANALYSIS; COMMODITIES

<5j7>
Roberts, P.O.
Rassachusetts Institute of Technology, Center for
Transportation Studies
ADDPESS: Cambridge, MA 02139
TITLE: Forecasting Freight Flows Using a
Disaggregate Preight Demand Hodel

CTS Peport Wo. 76-1, 26 p.
1976, January
SPONSOR: Pederal Energy Administration
REYWORDS: FORECASTING; CARGO TRANSPORTATION;
HATHEMATICAL HODELS; COSTS; TARIFFS;
COMPODITIES; DEHAND (ECONOMICS); PLANNING;
PATES (COSTS)

<538>
Roberts, P.O.
Rassachusetts Institute of Technology, Center for
Transportation Studies
ADDRESS: Cambridge, MA 02139
FITUE: Developing Freight Origin-Destination Data
for Use in Freight Planning

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SPOMSOR: U.S. Dept. of Transportation,
Transportation Systems Center
RETWORDS: CAPGO TRANSPORTATION; SHIPHENTS; DATA
ACQUISITION; COMMODITIES; SUNYEIS; HODELS;
DATA COMPILATION; COSTS; TABLES (DATA);
INFORMATION; PLANNING; DEMAND (ECONOMICS);
DISTANCE

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SPONSOR: Pederal Energy Administration, Office of
Transportation Policy Research
RETWORDS: INTERCITY TRANSPORTATION; CARGO
TRANSPORTATION; COSTS; HODELS; FORECASTING;
TRUCKS; RAIL TRANSPORTATION; TRAVEL TIME;
DELATS; TRAITFYS; PUEL CONSUMPTION; WATERWAY
TRANSPORTATION; SHIPHENTS; FUEL RCONONT;
TOWNAGE; TABLES (DATA); COMMODITIES

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SPONSOR: U.S. Dept. of Transportation, Office of
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Secretary for Systems Development and
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KEYWORDS: AUTOHOBILES: FUEL ECONOMY: HEASURING
INSTRUMENTS: FUEL CONSUMPTION: TESTING:
DIAGRAMS
AVAILABILITY: HTIS: also available from GPO,
Stock No. 003-003-01799-0

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SPONSOR: Council on Environmental Quality;
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TRANSPORTATION; INTERCITY TRANSPORTATION;
MODELS: FORECASTING: SOCIO-ECONOMIC FACTORS;
TRAVEL; NOISE (SOUND); AIR POLLUTION;
ACCIDENTS; LAND USE; OPERATING COSTS; SPEED
LIMITS; GASOLINE; TAXES
AVAILABILITY: WIIS

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ADDRESS: 7910 Woodmont Avenue, Bethesda, HD 20014
FITLE: Intercity Passenger Transportation:
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SPONSOR: Council on Environmental Quality;
Federal Energy Administration
REYWORDS: INTERCITY TRANSPORTATION; GOVERNMENT
POLICIES: HODBLS; FUEL ECONOMY; TAXES; EMERGY
CONSUMPTION; ECONOMICS; STATISTICS; VEHICLE
HILES TRAVELED; FORECASTING; TRANSPORTATION
HODE CHOICE
AVAILABILITY: MTIS

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ADDRESS: Canoga Park, CA
TITLE: Economic and Technical Peasibility Study
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SPONSOR: Energy Research and Development
Administration, Division of Conservation
Research and Technology
RETWORDS: PERSIBILITY: FLYWHEELS; EMERGY STORAGE;
TABLES (DATA): TECHNOLOGY: FORECASTING;
ECONOMICS; UTILIZATION; TRANSPORTATION;
BLECTRIC UTILITIES; CONTENCIAL SECTOR;
INDUSTRIAL SECTOR; RESEARCH; DESIGH;
RESIDENTIAL SECTOR; RESEARCH; DESIGH;
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VEHICLES; ELECTRIC VEHICLES; INSTITUTIONAL
FACTORS; SAFETY; GRAPHS (CHARTS); DIAGRAMS

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Wational Aeronautics and Space Administration,
 Lewis Research Center
ADDRESS: Cleveland, OR %*135
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KETWORDS: GAS TYRBINE ENGINES; PERFORMANCE; US
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TESTING; ENGINES; EFFICIENCY; EQUIPHENT;
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Division: Energy Research and Development
Administration, Division of Transportation
Emergy Conservation
KETWORDS: HIDROGEN; AUTOHOBILES: HAGNESIUM
"MYDPIDES: ENERGY STORAGE; ALTERNATE FUELS;
MAGNESIUM ALLOYS: RESEARCH; HYDRIDES;
REFUELING: TABLES (DATA): GRAPHS (CHARTS):
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AVAILABILITY: HTIS

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U.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Kendall Square, Cambridge, HA 02182
FITLE: Institutional Pactors in Transportation
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KYWORDS: HYBRID ELECTRIC-POWERE D VERICLES;
INSTITUTIONAL PACTORS; LEGISLATION; TAXES;
REGULATIONS: BLECTRIC VERICLES: TRAPPIC
CONTROL; GOVERNHEET POLICIES: AUTOHOTIVE
INDUSTRY; ELECTRIC POWER; BATTERY CHARGING;
VERICLE PARKING; TABLES (DATA); REGIONAL
ANALYSIS; PRICES; RATES (COSTS); PETROLEUN;
UTRAN AREAS
AVAILABILITY: STIS

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ADDRESS: Sweden
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AVAILABILITY: Society of Automotive Engineers, Inc., 400 Commonwealth Drive, Facrendele, PA 15096

Boston University, School of Hanagement
ADDRESS: Boston, MA 02215
FITLE: Hodel for Cost-Effective Maintenance of
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Systems

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REYMORDS: HAINTENANCE; COST ANALYSIS; SCHEDULING;
RAIL TRANSPORTATION; RODELS; PLANNING
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
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Rosenthal, S.R.; Herniter, J.D.; Welam, U.P.

ROSS, J.A.; Wooldridge, G.A.
Rohr Industries Inc., Advanced Transportation
Systems
ADDRESS: Chula Vista, CA 92010
FITLE: Preliminary Power Train Design for a
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EHR-78-035, 222 p.
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and Hybrid Vehicle Systems Program; National
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SYSTEMS; PERFORMARCE; ELECTRIC VEHICLE RANGE;
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AVAILABILITY: HTIS

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ADDRESS: Torrance, CA
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SAPETY; BATTERIES; TABLES (DATA); GRAPES
(CHARTS); DIAGRARS; EMERGY STORAGE;
ECONOMICS; COSTS; DEVELOPMENT; RODELS;
SIMULATION; LIFE-CYCLE COST; TRANSPORTATION
AVAILABILITY; MIS

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FITLE: Hydrodynamic Air Lubricated Compliant
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South Carolina, University of, Dept. of
Government and International Studies: South
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Transportation Center
ADDRESS: Columbia, SC 29208
TITLE: Impact of the Energy Shortage on Travel
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SPONSOR: U.S. Dept. of Transportation, Urban Hass
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KEYFORDS: EMERGY SHORTAGES; TRAVEL; ATTITUDES;
AUTOMOBILES; SOUTH CAROLINA; PUBLIC
TRAWSPORTATION; GASOLINE; AVAILABILITY;
SERVICES; EWERGY COMSERVATION; SURVEYS;
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BUSES (VEHICLES); CARPOOLING
AVAILABILITY: National Academy of Sciences,
Transportation Research Roard, 2101
Constitution Ave. NW, Washington, DC 20418
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AVAILABILITY: Society of Automotive Engineers
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De Leuw, Cather and Co.; Urban Institute
ADDRESS: Washington, DC
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Transportation, Federal Highway Administration REYWORDS: URBAN TRANSPORTATION; PLANNING; RAIL TRANSPORTATION; BUSES (VEHICLES); RAPID TRANSIT SYSTEMS; HIGHWAY TRANSPORTATION; VELOCITY; CAPACITY; OPERATING COSTS; EMERGY COMSTHPTION; EMISSIONS; ACCIDENTS; REGIONAL AWALYSIS; COMPARATIVE EVALUATIONS; GRAPHS (CHARTS); TABLES (DATA)

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KEYWORDS: FORECASTING; WATER TRANSPORTATION;
FUELS; PRICES; AVAILABILITY; HARINE
TRANSPORTATION; RESIDUAL OILS; TANKER SHIPS;
CARGO TRANSPORTATION; FUEL CONSUMPTION;
ALTERNATE FUELS; PETROLEUR; DEHAND
(BCONOMICS); SUPPLY (ECONOMICS); ENERGY
DEFAND; EMERGY SUPPLIES
AVAILABILITY: HTIS

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Unger, V.R.; Stout, R.W.
Schiapeler-Corradino Associates; Georgia
Institute of Technology; U.S. Dept. of
Transportation
TITLE: Optimum Staging of Projects in a Highway Plan

Report presented at the 54th Annual Meeting of the Transportation Research Board, published in Transportation Research Record 585, 25-34

KETWORDS: HIGHWAYS; PLANNING; FORECASTING; TRAFFIC; HODELS; TABLES (DATA); SCHEDULING; CONSTRUCTION

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AVAILABILITY: National Academy of Sciences,
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SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary; U.S. Dept. of Transportation,
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KETWORDS: ECONOMISTRIC MODELS; MARKET;
DENAME DENAMED (ECONOMISS); FORECASTING; AUTOMOBILES; DERAND (RCOMONICS); FORECASTING; SALES; VENICLE REGISTRATIONS; FUEL ECONOMY; SINULATION; GOVERNMENT POLICIES; COSTS; STOCKS AVAILABILITY: HTIS

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SPOMSOR: U.S. Dept. of Transportation, Office of
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RETWORDS: AUTOMOBILES; NARKET; DEMAND
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ADDRESS: One University City, 4025 Chestnut
Street, Philadelphia, PA 19104
TITLE: An Analysis of the Automobile Market:
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Demand for Automobiles. Volume III:
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Volume III of 3 volumes, 261 p. 1977, Pebruary SPONSOR: U.S. Dept. of Transportation, Office of the Secretary; U.S. Dept. of Transportation,
Transportation Systems Center
RETWORDS: ECONOMETRIC HODELS; AUTOMOBILES; PORFCASTING: DEMAND (ECONOMICS); TABLES (DATA) AVAILABILITY: HTIS

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Report No. COO-2749-18, 261 p. 1977, April 30 SPOTSOP: Energy Research and 3 1977, April 30
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EPFICIENCY; PUBL ECONOMY; GRAPHS (CHARTS);
TABLES (DATA); DIAGRAMS; VEHICLES;
PERFORMANCE; DEVELOPMENT
AVAILAPILITY; STIS C562>
Schwartz, H.J.
Hational Aeconautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH
TITLE: The Computer Simulation of Automobile Use
Patterns for Defining Battery Requirements
for Electric Cars Paper presented at the Pourth International Blectric Vehicle Symposium (sponsored by the Electric Vehicle Council and the International Union of Producers and Distributors of Electrical Emergy), held in Dusseldorf, Germany, August 31 - September 2,

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COMPUTERIZED SIMULATION; TRAVEL; AUTOMOBILES;
BATTERISS; UTILITATION
AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

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Schwartz, R.J.
Sational Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: New Batteries and Their Impact on Electric
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Report No. BRDA/NASA 1011/77/3, NASA TH X-7362, paper presented at the International Electric Vehicle Exposition, held in Chicago, Illinois, April 26-29, 1977, v.p.

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
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ADDRESS: Cleveland, OR 44135
TITLE: The Requirements for Batteries for
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Paper published in Transportation Research Record 1977 SPONSOR: National Academy of Sciences, Transportation Research Board REYWORDS: PUBLIC TRANSPORTATION; MARKETING;

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COMSUMERS; BUSES (VEHICLES); ATTITUDES;
QUESTIONHAIRES
AVAILABILITY: Metional Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NY, Washington, DC 20418
\$3.20 for Transportation Research Record 625

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Schwarz, R.
ASL Engineering Inc.
ADDRESS: 495 South Fairview Avenue, Goleta, CA
93017
TITLE: Wear-Term Electric Vehicle Program.
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Report No. SAM/1295-1, 30% p.
1977, August
SPONSOR: Energy Research and Development
Alainistration, Division of Transportation
Energy Conservation
KEYWORDS: ELECTRIC VERICLES; DESIGN; PATTERIES;
PERFORMANCE; TABLES (DATA); GRAPHS (CHARTS);
DIAGPAMS: LIPE-CYCLE COST; COSTS; EFFICIENCY;
ENERGY COMSUMPTION; EMERGY CONSERVATION; WEIGHT
AVAILABILITY: HTIS

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Seda, B.
Research Institute for Rotating Electrical
Hachines
ADDRESS: Brno, Czechoslovakia
TITIE: Development of Electric Vehicles in
Czechoslovakia

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Electric Vehicle Symposium, held in
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1976, 12 p.
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SPONSOR: Electric Vehicle Council; International
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Electrical Energy
KEYWORDS: ELECTRIC VEHICLES; DEVELOPMENT:
CZEMOSLOVAKIA; BUSSE (VEHICLES); CONTROL
AVAILBELITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1,50

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Sevien, W.A.; Selteno, F.J.
Brookhaven Fetional Laboratory
ADDRESS: Tyton, NY
TITLE: Systems Study of Two Synthetic
Transportation Fuel Options

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REFFORDS: ALTERNATE FUELS; COAL; HYDROGER; HYTHAME: SYMPHETIC FUELS: PORCASTING:

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Shatghnessy, A.E.
Rational Acadesy of Sciences, Fational Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue, Washington, DC
20418

TITLE: Railroad Electrification: The Issues

Transportation Research Board Special Report 180, 88 p.
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Shaw, R.L.; Wood, R.K.
Logistics Management Institute
ADDRESS: Washington, DC
TITLE: Volumes and Transportation Costs of Fossil
 Fuels Shipped Between Census Regions
Report No. BNL-21995, 50 p.
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SPONSOR: Brookhaven Hational Laboratory, National
Center for Analysis of Energy Systems,
Economic Analysis Divison; Energy Research
and Development Administration, Administrator
for Planning, Analysis, and Evaluation
KEYWORDS: PETROLEUM; COSTS; COAL; TRANSPORTATION;
HATURAL GAS; REGIONAL AMALYSIS; EMERGY
CONSUMPTION; HODELS; EMERGY SYSTEMS;
SIMULATION; EMERGY SUPPLIES; GRAPHS (CHARTS);
SUPPLY (ECONOMICS)
AVAILABILITY: WIIS

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Shelton, E.H.
Energy Research and Development Administration,
Bartlesville Energy Research Center
ADDRESS: Bartlesville, OK
TITLE: Hotor Gasolines, Finter 1976-77

Report No. BERC/PPS-77/3, 89 p.
1977, June
KEYWORDS: GASOLINE; SURVEYS: TABLES (DATA);
GRAPHS (CHARTS); DISTILLATION; UNLEADED
AUTOROTIVE FUELS; OCTANE; HAPS; HARKETING;
TRENDS; PHYSICAL PROPERTIES
AVAILABILITY: HITS

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Shelton, R.H.
U.S. Dept. of Energy, Bartlesville Energy
Research Center
ADDRESS: Bartlesville, OK
TITLE: Diesel Fuel Oils, 1977

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1977, November
REYMORDS: DISSEL FUELS; FUEL OIL; TABLES (DATA);
GRAPHS (CHARTS); REGIONAL AWALTSIS; SUBVEYS;
CHEBICAL PROPERTIES; CHEHICAL COMPOSITION;
TESTING
AVAILABILITY: HTIS

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Shelton, B.H.
U.S. Dept. of Energy, Bartlesville Energy
Research Center
ADDRESS: Bartlesville, OK
TITLE: Rotor Gasolines, Summer 1977

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1978, January
RETWORDS: GASOLINE; SURVEYS: TABLES (DATA);
GRAPHS (CHARTS); DISTILLATION: UNLEADED

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<578> Shelton, E.H. T.S. Dept. of Energy, Bartlesville Energy Pesearch Center ADDRESS: Wartlesville, OK TITLE: Aviation Turbine Fuels, 1977

Report No. BERC/PPS-78/2, 13 p.
1970, Hay
REYWORDS: AVIATION FUELS; JET ENGINE FUELS;
COMPARATIVE EVALUATIONS; STATISTICS; CHEMICAL PROPERTIES AVAILABILITY: PTIS

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Shonka, D.B.; Loebl, A.S.; Patterson, P.D.;
 O'Connor, T.P.; Ogle, M.C.; Rose, A.B.;
 Greene, D.L.
Oak Ridge Wational Laboratory, Energy Division,
 Regional and Urban Studies Section
ADDRESS: Oak Ridge, TW 37380
TITLE: Transportation Energy Conservation Data
 Wook: Edition 2 <577>

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1977, October
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
REFEORDS: EMERGY CONSERVATION; HIGHWAT
TRANSPORTATION; AIR TRANSPORTATION; RAIL
TRANSPORTATION; RAINE TRANSPORTATION;
PIPPLIME TRANSPORTATION; STATISTICS; TABLES

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(DATA); GRAPHS (CHARTS); VEHICLES;

REGULATIONS: EMERGY CONSUMPTION; DEMAND
(ECONOMICS); FUEL ECONOMY; FUEL CONSUMPTION;
AUTOMOBILES; EMERGY INTERSITY; TRAVEL; EMERGY
DEMAND; PASSENGER TRANSPORTATION; AUTOMOTIVE
FLEETS; PETROLEUM; SALES; PUBLIC
TRANSPORTATION; URBAN TRANSPORTATION; VEHICLE
REGISTRATIONS; VEHICLE HILES TRAVELED;
FORECASTING; GOVERNMENT POLICIES; EMERGY
SUPPLIES; WATER TRANSPORTATION
AVAILABILITY; MITS

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Silbersan, J.B. (ed.)
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418 TITLE: Value of Travel Time

Transportation Research Record 587, 41 p. 1976
KEYHORDS: TRAVEL TIME; TRANSPORTATION; VEHICLE
TRIPS; PRICES; PLANNING; MODELS; PASSENGER
TRANSPORTATION; COSTS; INTERCITY
TRANSPORTATION; BEHAVIOR; USERS; ECONOMIC
ANALYSIS; BENEFIT COST ANALYSIS; COST
EFFECTIVENESS; TRAFFIC; PESEARCH; MOBILITY
AVAILABILITY: \$2,40

<579> Silberman, J.B. (ed.)
Mational Academy of Sciences, National Research Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Transportation Energy Conservation and Demand

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KEYHORDS: TRANSPORTATION; EMERGY CONSERVATION;
EMERGY DEMAND; DEMAND (ECONOMICS);
CONFERENCES; MEETINGS; URBAN TRANSPORTATION;
ATTITUDES; EMERGY SHORTAGES; RURAL AREAS;
COMMUTING; WEW JERSEY; GASOLINE; OWNERSHIP;
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AVAILABILITY: \$5.00

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Highway Research Board, published in Highway Research Record No. 439, 19-27 1973
SPONSOR: National Academy of Sciences, National Research Council, Highway Research Board RETWORDS: AIRPORTS: HIGHWAY TRANSPORTATION: TRAVEL TIME; PERK-MOUR DENANC; VELOCITY; URBAN TRANSPORTATION; URBAN AREAS; DISTANCE; GRAPHS (CHARTS)

GRAPHS (CHARTS)
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. HW, Washington, DC 20818
\$2.00 for Highway Research Record No. 439

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Simbson and Curtin; Booz, Allen Applied Research Inc.

ADDRESS: S&C, 1346 Chestnut Street, Philadelphia, Ph. 19107; B-A, 4733 Bethesda Ave., Bethesda, HD 20014

TITLE: Transbus Public Testing and Evaluation Program

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TITLE: Comparative Costs of Orban Transportation
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1978, June
KEYWOPDS: COSTS; DRBAN TRANSPORTATION;
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AVAILABILITY: GPO, Stock No. 050-001-00137-3

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Searral Motors Corp., Research Laboratories,
 Physics Dept., Environmental Activities Staff
ADDRESS: Warren, MI
TITLE: Tire Rolling Resistance - A Speed
 Dependent Contribution

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1978
KEYWORDS: TIRES: VELOCITY: MODELS: FUEL ECONOMY: AUTOMOBILES: FRICTION: WEAR
AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096 \$2.50

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Rultisystems Inc., Transportation Systems Division
ADDRESS: Cambridge, ##
TITLE: Strategy For Implementing Integrated
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SPONSOR: U.S. Dept. of Transportation, Research and Development Policy Analysis Division KRIWORDS: URBAN TRANSPORTATION; POBLIC TRANSPORTATION; PUBLIC OPERATING COSTS; MOBILITY: PUBLIC OPINION
AVAILABILITY: National Academy of Sciences, Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
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ADDRESS: 400 Commonwealth Dr., Warrendale, PA
15096
TITLE: Automotive Fuel Economy (Selected SAE
Papers 1965 - 1975)
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ADDRESS: 400 Commonwealth Drive, Warrendale, PA
15096
TITLE: Engineering Know-How in Engine Design.
Part 24: Economy in Engine Performance

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ENGINEERING; FUEL CONSUMPTION; FUEL ECONOMY;
DESIGN; AUTONOTIVE EMISSIONS; FARM EQUIPMENT;
DIESEL ENGINES; GRAPHS (CHARTS); DIAGRAMS;
SYNTHETIC FUELS; AUTONOTIVE EMISSION CONTROL;
DYNAMORTERS; TABLES (DATA); TRACTORS;
LUBRICATING OILS

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Aerospace Corp., Energy and Resources Division
ADDRESS: 2350 E. El Segundo Blvd., El Segundo, CA
90245
TITLE: Alternative Policies for Effecting
Intercity Energy Use

12 p.
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REYWORDS: PLANNING; TRANSPORTATION; EMERGY
CONSERVATION; INTERCITY TRANSPORTATION;
TABLES (DATA); SIMULATION; EMERGY
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(VEHICLES); RAIL TRANSPORTATION; AUTOMOBILES;
AIR TRANSPORTATION; RAPID TRANSIT SISTEMS;
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ADDRRSS: Cleveland, OH 44135
TITLE: A Cycle Timer for Testing Electric Vehicles
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 Dustin, H.O.

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ADDRESS: Cleveland, ON 44135
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ACCELERATION; FLECTRIC VEHICLE RANGE;
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IGHITON ENGINES; PERFORMANCE; DIAGRAMS;
GRAPHS (CHARTS); EMERGY CONSUMPTION
AVAILABILITY: ETIS

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Wational Reronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OR 44435
TITLE: Pesults of Baseline Tests of the Lucas
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AVAILABILITY: HTIS

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7.5. Dept. of Energy, Energy Information
Alministration
ADDRESS: Washington, DC 20241
TITLE: International Petroleum Annual: 1976

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PETROLEUM REFINING; ENERGY DEMAND; OIL WELLS;
CAPACITY

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Standard Oil Co. of Ohio; SOHIO Petroleum Co.
ADDRESS: SRI, San Antonio, TX; CE, Denver, CO;
SOHIO, Grand Junction, CO
TITLE: Identification of Probable Automotive
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REYWORDS: ALTERNATE YPELS; RAW HATERIALS;
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FORECASTING; EMERGY DEMAND; SYNTHETIC
PETROLETH; REFINING; PROPERTIES; OIL SHALE;
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PRODUCTION; HYDROCARBONS; INTERNAL COMPUSTION
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Metrics Inc.
ADDRESS: 290 Interstate Morth, Suite 116, Atlanta, GA 30339
TITLE: Evaluation of Maritime Industry Energy Consumption Profiles

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ADDRESS: Arlington, VA
TITLE: Conservation: The Centerpiece

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PRICES; PETROLEUN; NATURAL GAS; EMERGY
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ELASTICITY (ECONOMICS): BUILDINGS; EMERGY
CONSUMPTION; STANDARDS; ATTITUDES; PUBLIC
OPINION; INCENTIVES; INSULATION; APPLIANCES

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J.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Kendall Square, Cambridge, NA 02142
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KEYWORDS: COMPUTER PROGRAMS: MASS TRANSPORTATION:
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AVAILABILITY: NTIS

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Springer, K.J.
Southwest Research Institute, Automotive Research
Division, Dept. of Emissions Research
ADDRESS: San Antonio, TX
TITLE: Transportation, Trucks and Fuel
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ADDBESS: 333 Revenuevood Avenue, Henlo Park, CA
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GRANIGH; PETROLEUM; PETROLEUM PRODUCTS;
FATURAL GAS; SYNTHETIC GAS; SYNTHETIC
ADDRESS SYNTHETIC FATURAL GAS; SYNTHETIC GAS; SYNTHETIC PETFOLENH; ELECTRIC POWER GREERATION; RESIDENTIAL SECTOR; COMMERCIAL SECTOR; INDUSTRIAL SECTOR; TRANSPORTATION; EMERGY MODELS; NUCLEAR FOLLS; GRAPHS (CHARTS); TABLES (DATA); EMERGY DENAMD

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ADDVESS: 333 Revensuood Avenue, Henlo Park, CA
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TITLE: Fuel and Energy Price Forecasts: Final
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SPONSOR: Blectric Power Research Institute
RETWONDS: ENERGY SUPPLIES; ENERGY HODELS; ENERGY BALANCE: DEFAND (SCONGRICS): PRICES; COSTS; TABLES (DATA); GRAPHS; ENERGY: RESIDENTIAL SECTOR; COHHERCIAL SECTOR; INDUSTRIAL SECTOR; TTANSPORTATION: FUELS: EMERGY CONVERSION: ECONOTICS AVAILABILITY: Electric Power Research Institute, 3412 Hillview Ave., Palo Alto, CA 94304

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SPONSOR: Mational Science Foundation, Division of
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ADDESS: Rendall Square, Cambridge, HA 02142
TITLE: An Analysis of Transportation Planning
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Pennsylvania State University, Pennsylvania
Transportation Institute
ADDRESS: University Park, PA 16802
PITLE: An Experiment in Preight Rodal Choice:
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SPONSOR: U.S. Dept. of Transportation, Office of
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RETWORDS: CARGO TRANSPORTATION; TRUCKS; COMMODITIES;
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RAIL TRANSPORTATION; PROCES;
RARRET; COMPETITION; RATES (COSTS); TOWNAGE;
DISTANCE; TABLES (DATA); REGIONAL ABALTSIS;
QUESTIONNAIRS; SURVEYS;
AVAILAPILITY; HTIS

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RETWORDS: TRAVEL TIME: ECONOMIC ANALYSIS; BENEFIT

COST NALLYSIS; COST EPPECTYSTESS; PLANKING

AVAILABILITY: National Academy of Sciences,

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Constitution Ave. NW, Washington, DC 20418

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<603> Stopher, P.R.
Cornell University, Dept. of Environmental
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ADDRESS: Ithaca, NY
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REYMORDS: HODELS; BERMYLOR; TRAVEL THE; VEHICLE
TREPS; PASSENGER TRANSPORTATION
AVAILABILITY: Fational Academy of Sciences,
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Constitution Ave. NW, Washington, DC 20418
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1978, May RETWORDS: AIR TRANSPORTATION; ECONOMETRIC HODELS;

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ADDMRSS: 1700 Hain Street, Santa Honica, CA 90806
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1977, July
SPONSOR: Mational Science Foundation; Pederal
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FABILY LIPE; COSTS; SOCIO-ECONOMIC PACTORS;
INCOME; VEHICLE TRIPS; COST ESTINATES;
IFSURANCE; TABLES (DATA); SURVEYS;
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Purvis Systems Inc., Washington Operations
ADDRESS: 3286 H Street NW, Washington, DC 20007
FITLE: Statistical Peport on Urban Energy
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CONSUMPTION: GOVERNMENT POLICIES; URBAN
AREAS; EMERGI RESOURCES; PRICES; PETROLEUM;
US DOT; STATISTICS; TABLES (DATA); COAL;
NATURAL GAS; ELECTRIC POWER; RESIDENTIAL
SECTOR; INDUSTPIAL SECTOR; TRANSPORTATION
AVAILABILITY: NTIS

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Sweeney, J.L.
Stanford University, Dept. of
 Engineering-Economic Systems
ADDRESS: Stanford, CA 94305
TITLE: U.S. Gasoline Demand: An Economic
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SPONSOR: Energy Research and Development
Administration, Office of Conservation
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RETWORDS: GASOLINE: FORL ECONOMY; AUTOMOBILES;
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AUTOMOTIVE INDUSTRY; PRICES; GOVERNMENT
POLICIES; ECONOMIC AWALTSIS; ELASTICITY
(ECOMOMICS); GRAPMS (CHARTS); TAXES; CONSUMERS

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ADDEES: Lexington, HA
FITLE: The Impact of the President's Proposed
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RETWORDS: TRANSPORTATION; EMERGY COMSUMPTION;
EMERGY CONSERVATION; FORECASTING; TABLES (DATA); BEGIONAL MALISIS; GOVERNMENT POLICIES; NORTHEASTERN STATES; EMERGY DEMAND AVAILABILITY: MTIS

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Rational Aeronautics and Space Administration,
Levis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: Experimental Evaluation of
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SPONSOR: Emergy Research and Development Administration, Division of Transportation Energy Conservation
RETWORDS: FUEL INJECTION SYSTEMS; ATOHIZATION; EVAPORATION; DIAGRAMS; GRAPHS (CHARTS); GAS TURBINES; CATALYSTS; COMBUSTORS; AUTOHOBBLES AVAILABILITY: MTIS

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Tap, R.: Kaprelian, A.
U.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Kendall Square, Cambridge, HA 02142
TITLE: Transportation Statistical Data and
Information

Report No. PB-265e57, DOT-TSC-OST-76-60, 226 p.
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SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
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Affairs, Office of Transportation Systems
Analysis and Information
REHORDS: TRANSPORTATION; STATISTICS; GOVERNMENT
POLICIES; INFORMATION; AVAILABILITY
AVAILABILITY: HTIS

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Taussig, W.H.
Taussig Associates
ADDRESS: Canaan Street Village, Canaan, WH 03741
TITLE: British Airways - An Analysis of
Bifficiency and Cost Levels

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the Secretary, Air Transportation Policy Staff
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UNITED KINGDON; STATISTICS; AIR
TRANSPORTATION; REVENUE; COMPARATIVE
FYALUATIONS; PASSENGER TRANSPORTATION;
OPERATING COSTS; CAPITAL COSTS; CARGO
TRANSPORTATION; USA; PRODUCTION; FINANCIAL
DATA; EARNINGS; PROFITS
AVAILABILITY: NTIS 1977, Hay SPONSOR:

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SPOMSOR: U.S. Dept. of Transportation, Office of
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KEYPORDS: TOURISH; TRAFFIC; URBAN AREAS; URBAN
TRANSPORTATION; HISTORY; LOCAL GOVERNMENT;
TRAVEL; VYHICLE TRIPS; RECREATION; ECONOMIC
IMPACT; ENVIRONMENTAL IMPACT; SOCIAL IMPACT;
INSTITUTIONAL FACTORS; SALEM (MASSACHUSETTS);
RA EXAMDRIA (YURGINIA); ANMAPOLIS (MARYLAND);
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(MASSACHUSETTS); MAPS
AVAILABILITY; NTIS AVATIABILITY: NTTS

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Inexhaustible Energy Resource Technologies:
Report of Technology Study Panel,
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SPONSOR: Energy Research and Development
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RETWORDS: EMERGY RESOURCES; SOLAR EMERGY; MATURAL WORDS: EMERGY RESOURCES; SOLAR EMERGY; HATURAL GAS: SPACE HEATING; TECHNOLOGY; EMERGY DEHAND, EMERGY CONVERSION; COST ANALYSIS; SUPPLY (ECOMONICS): GRAPHS (CHARTS); IMPORTS; TABLES (DATA); SYNTHETIC FUELS; PRICES; RATES (COSTS); CONTERCIAL SECTOR; ELECTRIC POWER; UTILIZATION; TRANSPORTATION

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Transportation Energy Conservation
REYWORDS: STIRLING ENGINES; HODELS; PERFORMANCE;
THERMODYNAMIC PROPERTIES; SIMULATION; AVAILABILITY: GPO, Stock No. 757-139/1201

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ADDRESS: 101 First Avenue, Waltham, NA 02154 TITLE: Feasibility Test on Compounding the Internal Combustion Engine for Automotive Vehicles, Task II. Final Report

Report No. COO-2690-1, TE4193-76-75, 250 p. 1976 1976
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
REYWORDS: INTERNAL COMBUSTIOF ENGINES: DIESEL
ENGINES: RANKINE CYCLE ENGINES: PERFORMANCE;
FUEL ECONOMY: TRUCKS: DESIGN: GRAPHS
(CHAPTS): DIAGRAMS: AUTOHOTIVE ENISSIONS;
FEASIBILITY: TESTING; WASTE HEAT; RECOVERY;
UTILIZATION: DEMONSTRATION
AVAILABILITY: NUTS

AVAILABILITY: NTIS

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Final Report, 137 p.
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Engineering Command, Office of Naval
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Administration KEYWORDS: PASSENGER TRANSPORTATION: GORDS: PASSEMEEN TRANSPORTATION; TRANSPORTATION MODE CHOICE; LAND USE; EMERGY CONSERVATION; AIR QUALITY; TRAFFIC: EMERGY CONSUMPTION; COMMUTERS; COSTS; HIGHWAIS; MODELS; STATISTICS; IMPUT-OUTPUT ANALYSIS;

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Towle, W.L.; Graae, J.E.A.; Chilenskas, A.A.;
 Ivins, R.O.
Argonne Mational Laboratory
ADDRESS: 9700 South Cass Ave., Argonne, IL 60439
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Washington, DC 20024
FITLE: Trinc's Blue Book of the Trucking
Industry: 1977 Edition

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DATA: STATISTICS: TABLES (DATA); NAMPOWER;
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SHEFTS; EXPENSES; REVENUE; REGIONAL ANALYSIS;

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ADDPESS: 2430 Pennsylvania Ave. NW, Washington,
DC 20037
TITLE: 1977-78 Truck Trailer Manufacturers
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TITLE: Allocation of Matural Gas Under Energy
Emergencies: Analysis of Selected Federal

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PLANNING; PIPELIMES; EMERGY FLOW; PRODUCTION;
STATP ANALYSIS: COSTS; PORECASTING; PRICES;
FTEL SUBSTITUTION; TRANSPORTATION; PROPANE;
MINNESOTA; OHIO; TABLES (DATA)

Report presented at the 54th Annual Meeting of the Transportation Research Board, published in Transportation Research Record 585, 60-67 1976

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AVAILABILITY: National Academy of Sciences, Transportation Research Board, 2101 Constitution Ave. NW, Washington, DC 20418 \$3.60 for Transportation Research Record

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RDPRESS: 1023 Washington Ruilding, Washington, DC
27005
TITLE: A Comparative Analysis of Orban
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REGULATIONS; STANDARDS; MOTOR VEHICLES;
ACCIDENTS: MANUPACTURERS
AVAILABILITY: House and Senate Document Room,
Capitol Building, Washington, DC

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GOVERNHERT POLICIES: RATPS (COSTS);
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AVAILABILITY: House and Senate Document Room,
Capitol Building, Washington, DC

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TRANSPORTATION: TRANSPORTATION
RVAILABILITY: House and Senate Document Room,
Capitol Building, Washington, DC

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ADDRESS: Washington, DC
TITLE: Pederal-Aid Highway Act of 1976 and
Highway Safety Act of 1976

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KEIWORDS: TRANSPORTATION; LEGISLATION; TAXES;
ANTOHOBILES; ECOMOHICS; GASOLINE; FUEL
CONSUMPTION; INDUSTRIES; REVENUE; EMERGY
POLICY; EMERGY CONSERVATION; TABLES (DATA);
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RETWONDS: ENERGY POLICY; PLANNING; LEGISLATION;

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KEYFORDS: EMERGY POLICY; PLANNING; LEGISLATION;
SOCIO-ECOMOBIC FACTORS; EMERGY SUPPLIES;
EMERGY DEMAND; SOCIAL IMPACT; PRICES; POSSIL
FMELS: COAL; PETROLEUN; HANTURAL GAS; MUCLEAR
EMERGY; EMERGY CONSERVATION; TABLES (DATA);
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PLANNING: TECHNOLOGY ASSESSMENT; FINANCING;
PROFOGRAPHS; TABLES (DATA); STATE ARRLYSIS
AVAILABILITY: WITS

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ADDRESS: Washington, DC
TITLE: 1967 Census of Transportation. Commodity
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KEYBORDS: TRUCKS; CARGO TRANSPORTATION;
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DISTRIBUTION; TABLES (DATA); WEIGHT
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KEYWORDS: TFAFFIC; CENSUS; MANUFACTURING;
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TABLES (DATA); CARGO TRANSPORTATION; TRUCKS
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SPONSOR: U.S. Dept. of Transportation, Office of
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Corps of Engineers, Institute for Water
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RESPONDS: INTERNATIONAL TRAVEL: INTERNATIONAL

REMOORS: INTERPRITIONAL TRAVEL: INTERNATIONAL TRADE: TRAMSPORTATION; COMPODITIES: CARGO TRANSPORTATION; SURVEYS: TABLES (DATA); GRAPHS (CHARTS); WEIGHT; WATER TRANSPORTATION; AIR TRANSPORTATION; AIR TRANSPORTATION; HAPS; EXPORTS: INPORTS: REGIONAL ANALYSIS; QUESTIONNAIRES; DISTANCE AVAILABILITY: GPO

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Business Division
ADDRESS: Washington, DC
TITLE: 1972 Census of Wholesale Trade. Subject
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Series No. WC72-3-2, 157 p.
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RETWORDS: PEROLEUM; PETROLETH PRODUCTS; STATE ANALYSIS; STORAGE; CAPACITY; REGIONAL ANALYSIS; LIQUEPIRD PETROLETH GESTS; TABLES (DATA); STATISTICS; SALES; WHOLESALE TRADE; RETAIL TRADE; CAPITAL COSTS; TRANSPORTATION AVAILABILITY; GPO

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ADDRESS: Washington, DC 20233
TITLE: United States Foreign Trade: Bunker Puels. Oil and Coal Laden in the United States on Vessels Engaged in Foreign Trade

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KEYWORDS: COAL; INTERNATIONAL TRADE: DIESEL PTELS: HARKNE TRANSPORTATION; FUEL CIL: USA; ENERGY CONSUMPTION; IMPORTS; EXPORTS; PETROLETH; TABLES (DATA); HARBORS; STATISTICS; WATER TRANSPORTATION; SHIPS

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**ETWORDS: PETROLEUH: WATURAL GAS: REVENUE: SALES:
STATISTICS: EXPENDITURES: PRODUCTION:
ETM.ORATION: GAS WELLS: OLL WELLS: GRAPHS
(CHARTS): TABLES (DATA): SALES: LEASES:
FINANCIAL DATA: PETROLEUH INDUSTRY
AVAILABILITY: Subscriber Services Section, Bureau
of the Censue, Washington, DC 20233 \$0.70

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ADDRESS: Washington, DC
TITLE: Consumer Income: Honey Income and Poverty Statum in 1975 of Pamilies and Persons in the United States and the North Central Region, by Divisions and States (Spring 1976 Survey of Income and Education)
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RETWORDS: COMSUMERS; INCOME; REGIONAL ANALYSIS;
STATE ANALYSIS: POPULATION (STATISTICS); AGE
GROUPS: RACE; POVERTY; SEX
AVAILABILITY: GPO

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RETUGRES: INDUSTRIAL SECTOR; CONSTRUCTION
INDUSTRY: HATERIALS; CONNERCIAL SECTOR;
HABUPACTURING; FORECASTING; GROWTH; LUMBER
IPDUSTRY; PAPER INDUSTRY; HETAL INDUSTRY;

TRANSPORTATION; TABLES (DATA); GRAPHS (CHARTS); CHEMICAL INDUSTRY; MARKETING; WHOLESALE TRADE; RETAIL TRADE; HOUSEHOLD GOODS; COMMUNICATION; HACHINERY; BLECTRICAL EQUIPMENT
AVAILABILITY; GPO, Stock No. 003-008-00179-3

<642> U.S. Dept. of Conmerce, Haritime Administration, Office of Subsidy Administration ADDRESS: Washington, DC TITLE: Herchart Fleets of the World: Oceangoing Steam and Hotor Ships of 1,000 Gross Tons and Over as of December 31, 1975

Annual report, Report No. HAR-560-20, 47 p.
1976, September
REYWORDS: HARINE TRANSPORTATION; TOWNAGE;
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CARGO TRANSPORTATION; TABLES (DATA);
INVENTORIES

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TRANSPORTATION; STATISTICS; INTERNATIONAL
ANALYSIS; PASSENGER TRANSPORTATION; SELPS;
TOWNAGE; MARINE TRANSPORTATION; WEIGHT
AVAILABILIT; GPO, Stock No. 003-007-00083-9

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REWMORDS: WATER TRANSPORTATION: TABLES (DATA):
STATISTICS: COHERCE: WATERWAY
TRANSPORTATION: REGIONAL ANALYSIS: STATE
AWALYSIS: TRADE: TRAPFIC: HARBORS: COASTS:
BARGES: INTERNATIONAL TRADE
AVAILABILITY: U.S. Aray Engineering Division, New
England, 424 Trapelo Road, Walthan, HA 02154

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ADDRESS: Washington, DC
TITLE: Energy Energencies

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REYNORDS: REEDGY EMERGENCY PLANNING; HEALTH;
SAPETY; SPACE HEATING; ELECTRIC POWER DEHAND;
NATURAL GAS; STATE GOVERNMENT; FUEL
CONSUMPTION; ALLOCATIONS; FUEL ECONOMY;
EMERGY CONSUMPTION; RESIDENTIAL SECTOR;
TRANSPORTATION

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RETWORDS: ELECTRIC VEHICLES; MYBRID
ELECTRIC-POWERED VEHICLES; US DOE; PUNDING;
PLANNING; RESSARCE

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ADDRESS: Washington, DC
TITLE: Environmental Development Plan (EDP):
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KEYNORDS: PLANNING; TECHNOLOGY; TRANSPORTATION;
HIGHWAY TRANSPORTATION; BLECTRIC VEHICLES;
ENGINES; HYBRID ELECTRIC-POWERE VEHICLES;
ALTERNATE FUELS; SUPRRETIC FUELS; HITIGATION;
HEASTER; SAFETY; ENVIRONMENTAL IMPACT;
DIAGRAMS; STIRLING ENGINES; GAS TURBINE
ENGINES; PIPELINE TRANSPORTATION; STRATIFIED
CHARGE ENGINES; DRIVING CYCLE; FUEL
CONSUMPTION; COMPARATIVE EVALUATIONS
AVAILABILITY: BTIS

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U.S. Dept. of Energy, Assistant Secretary for Conservation and Solar Applications, Office of Business Assistance Programs
ADDRESS: Washington, DC 20585
TITLE: Voluntary Business Energy Conservation Program: Progress Report No. 6

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1978, April
KEYBORDS: INDUSTRIES; INDUSTRIAL SECTOR; ENERGY
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CONSTRUCTION INDUSTRY; EMERGY DEMAND; AIR
CONDITIONING; PUELS; GRAPHS (CHARTS)
AVAILABILITY; GPO, Stock No. 061-000-00052-6

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U.S. Pept. of Energy, Assistant Secretary for Conservation and Solar Applications, Transportation Programs Office ADDRESS: Washington, DC 20585
TITLE: Proceedings of the Workshop on Urban Freight Consolidation

Report No. CONF-760165, Proceedings of the Norkshop held January 13-14, 1976 in Knowville, TH, 187 p. 1978, June

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RETURNS: CARGO TRANSPORTATION; PLANNING; DEHARD (BCORONICS); UNBAN TRANSPORTATION; RAIL TRANSPORTATION; INTERNATIONAL TRADE; TRUCKS; TABLES (DATA); GRAPHS (CHARTS); WATER TRANSPORTATION; CONHODITIES; RATES (COSTS); SRIPRENTS; LAND USE; SOCIO-BCONORIC PACTORS; ENVIRONMENTAL IMPACT; GOVERNMENT POLICIES; TRANSPORTATION

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Review Draft, Report No. DOE/ET-0010/1(D), 399 p.
1977, December
RETUODS: RESIDENTIAL SECTOR; CONTERCIAL SECTOR;
RETUODS: RESIDENTIAL SECTOR; CONTERCIAL SECTOR;
ENVIRONMENTAL INPACT; SUPPLY (ECONOMICS);
TABLES (DATA): TECHNOLOGY ASSESSMENT; POSSIL
FUELS; COAL; SOLAR EMERGY; EMERGY
CONSERVATION; EMERGY SUPPLIES; DEHAND
(ECONOMICS); PLANNING; HARKET; EMERGY
CONSERVATION; ENTOYAL GAS; PETROLEDH; ELECTRIC
FOWER GENERATION; HEALTH; SAFETT; COMPARATIVE
EVALUATIONS; GRAPHS (CHARTS); RESEARCH;
CONHERCIALIZATION; PORRCASTING

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ADDRESS: Mashington, DC
TITLE: Environmental Development Plan (EDP):
Summary and Status of Environmental
Development Plans, PY 1978

Report No. DOE/EDP-0025, 83 p.

1978, April

KEYWORDS: SOLAR EMEPGY; GEOTHERMAL EMPRGY; POSSIL

FUELS; COAL GASIFICATION; EMERGY
CONSERVATION; COAL LIQUEFACTION; TECHNOLOGY;

MAGNETORIDRODYWANICS; COMBUSTION; COAL;

MUCLEAR EMERGY; BIONASS; UNCONVENTIONEL

EMERGY SOURCES; PHOTOVOLTAIC CONVENSION; AIR

POLLUTION; WATER POLLUTION; BUILDINGS;

INDUSTRIAL SECTOR; TRANSPORTATION; HEALTH;

SAFETY; SOCIO-ECONOMIC FACTORS; EMVIRONREWTAL

IMPACT; ELECTRIC POWER; OCEAN THERMAL EMERGY

COPYERSION

AVAILABILITY: WITS

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Emergy Conservation
ADDRESS: Washington, DC
TITLE: The Pirst Annual Report to Congress on the
Implementation of Public Law 94-813: The
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Development and Demonstration Act of 1976

Report No. DOE/CS-0002/1, 78 p.
1977, December
REFFORDS: BLECTRIC VEHICLES; RESEARCH PROGRAMS;
RESEARCH: DEVELOPHENT; US DOE: GOVERNMENT
POLICIES: DENOWSTRATION: INDUSTRIES
AVAILABILITI: GPO, Stock No. 061-000-00024-1

<653> U.S. Dept. of Energy, Division of Transportation Energy Conservation ADDRESS: Washington, DC 20545 TITLE: Program Planning Document: Highway Vehicle Alternative Puels Utilization Program (APUP)

Report No. DOB/CS-0029, v.p.
1978, April
RETWORDS: ALTERNATE FUELS; HIGHWAY
TRANSPORTATION; UTILIZATION; EMERGY
CONSURPTION; SYNTHETIC FUELS; FUNDING;
RESEARCH; PETROLEUN; TECHNOLOGY ASSESSMENT;

<653> CONT. GRAPHS (CHARTS)

<65a> U.S. Dept. of Energy, Division of Transportation Energy Conservation ADDRESS: Washington, DC TITLE: Alternative Puels Utilization Report

Report No. DOB/CS-0022, v.p.
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RETWORDS: ALTERNATE FUELS; UTILIZATION; US DOE;
INTERNATIONAL AWALYSIS; TRANSPORTATION;
PLANNING

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Report Fo. DOR/CS-0046, 13 p.
1978
REYWORDS: ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VERICLES; US DOE; HARRET;
DEHOUSTRATION; UTILIZATION; ELECTRIC VEHICLE
PANGE: RESEARCE
AVAILABILITY: GPO, Stock No. 061-000-00171-9

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U.S. Dept. of Energy, Division of Transportation
Energy Conservation, Office of Highway
Vehicle Systems
ADDRESS: Washington, DC
TITLE: Highway Vehicle Systems Contractors
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Thirteenth Summary Report, Report No.
COMP-771037, proceedings of a conference held
October 8-6, 1977, Dearborn, Hichigan, 430 p.
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RETWORDS: COMPERENCES; AUTOHOTIVE ENGINES; US
DOR; GAS TURBINE ENGINES; HEAT ENGINES; MASA;
FUEL ECONOMY; PASSENGER TRANSPORTATION; HEAT
EXCHANGERS; STIRLING ENGINES; DESIGN;
ALTERNATE FUELS; TRANSPORTATION; ENERGY
CONSERVATION; DIAGRAMS; PHOTOGRAPHS; GRAPHS
(CHARTS)
AVAILABILITY; HTIS

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U.S. Dept. of Energy, Economic Regulatory Administration
ADDRESS: Washington, DC
TITLE: Fotice of Proposed Rulemaking and Public Hearing to Establish Contingency Gasoline Pationing Plan

10 CFR PART 500, 107 p.
REYPORDS: GASOLIEE: GOVERNHEET POLICIES:
HEAPINGS: VEHICLES: ALLOCATIONS: CONSUMERS:
DIESEL POELS: PURCHASING: AUTOHOBILES:
ECOPODIC AWALYSIS: REGULATIONS: RATIONING:
PLAFFING: SHORTAGES: STATE AWALYSIS: RHERGY
EMEPGENCY PLANNING: PUBLIC SERVICES: PRICES

<658> U.S. Dept. of Energy, Economic Regulatory Alministration ADDRESS: Washington, DC TITLE: Preliminary Findings and Views Concerning the Exemption of Kerojet Puels from the Handatory Petroleum Allocation and Price Regulations

Report No. DOE/ERA-0002, 104 p.
1976, January
KRYNORDS: AIR TPANSPORTATION: EMERGY DEHAND:
HISTORY: EMERGY SUPPLIES: COSTS: PETROLEUM:
TABLES (DATA); AVIATION FUELS: TURBINES:
KREOSEWE: ECOMONIC IMPACT: IMPORTS:
DISTRIBUTION: PORECASTING: REPIMERIES:
HILITARY UTILIZATION: TRANSPORTATION:
REGULATIONS: PRICES: MARKET: ALLOCATIONS

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U.S. Dept. of Energy, Economic Regulatory
Administration, Office of Regulations and
Emergency Planning
ADDRESS: Washington, DC 20461
TITLE: Findings and Views Concerning the
Exemption of Motor Gasoline From the
Handatory Petroleum Allocation and Price
Regulations: Supplement to September 1977
Report

Report No. DOE/ERA-0012, 72 p.
1970, Hay
KEYWORDS: GASOLINE; PETROLEUM; ALLOCATIONS;
REGULATIONS; EMERGENCY ENERGY PLANNING;
GOVERNMENT POLICIES; EMERGY SHORTAGES: EMERGY
DENAND; PRICES; HISTORY; FUEL COMSUMPTION;
HARRET; TABLES (DATA); SALES; FORECASTING;
EMERGY SUPPLIES; PETROLEUM REFINERIES

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U.S. Dept. of Energy, Economic Regulatory Administration, Office of Regulations and Emergency Planning ADDRESS: Washington, DC TITLE: Environmental Assessment of the Exemption of Hotor Gasoline from the Handatory Allocation and Price Regulations

34 p.
1978, May
RETWORDS: ENVIRONMENTAL IMPACT; ALLOCATIONS;
REGULATIONS; GASOLINE; GOVERNMENT POLICIES;
PRICES; VEHICLES; EMERGY POLICY; REGIONAL
ANALYSIS; WATER QUALITY; AIR QUALITY

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U.S. Dept. of Energy, Economic Regulatory Administration, Office of Regulations and Emergency Planning, Major Emergency Programs Division
ADDRESS: Washington, DC
TITLE: Economic and Regulatory Analysis of the Proposed Standby Gasoline Rationing Plan

Draft Report, 279 p.
1978, April 13
KEYNORDS: INDUSTRIAL SECTOR; STATE ANALYSIS;
COMPETITION; TABLES (DATA); US DOE; SALES;
ECOMONIC IMPACT; REGIONAL ANALYSIS; FOEL
COMSUMPTION; GASOLINE; EMERGY SHURTAGES;
PRICES; REGULATIONS; PETROLEUM; ALLOCATIONS;
FORECASTING; ECONOMIC ANALYSIS; GROSS
HATIONAL PRODUCT; EMPLOYMENT; INCOME;
TRANSPORTATION

<662> U.S. Dept. of Energy, Energy Information <662> <662> CONT. Mainistration ADDRES: Washington, DC 20461
TITLE: Energy Information Administration Annual Report to Congress: 1977. Volume I

Report No. DOE/EIA-00036/1, 106 p.
1978, February
REYWORDS: US DOE: DATA ACQUISITION: EMERGY
SUPPLIES: REERGY DENAND: SYSTEMS AWALYSIS:

(663> <663> U.S. Dept. of Energy, Energy Information Administration ADDRESS: Washington, DC TITLE: 1977 Energy Information Administration Annual Report to Congress. Volume II: Projections of Energy Supply and Demand and Their Impacts. (Also Executive Summary)

Report No. DOE/EIA-0036/2 (EX SUN), 24 p.; Report No. DOE/EIA-0036/2, 296 p. 1978

1978
KETFORDS: FORECASTING; EMERGY DEHAND; EMERGY
SUPPLIES; INPORTS; TABLES (DATA); AIR
POLLUTION; GROWTH; GRAPHS (CHARTS); HISTORY;
COMPETITION; REGULATIONS; INTERNATIONAL
AWALTSIS; PRICES; RESIDEMFIAL SECTOR;
TRANSPORTATION; COMMERCIAL SECTOR; INDUSTRIAL
SECTOR; EMERGY COMSUMPTION; EMERGY SOURCES;
PETROLEUN; NATURAL GAS; NUCLEAR YDELS;
ELECTRIC POWER; UNCONVENTIONAL MERGY
SOUNCES. AUTOMATOR NUTSY; ECONOMIC AMALYSIS. SOURCES: ALTERNATE PUBLS; BCONORIC AWALYSIS; ECONORIC IMPACT; BEVIRONMENTAL IMPACT

<664> Code)

U.S. Dept. of Energy, Energy Information
Administration
Administration
ADDRESS: Washington, DC

TITLE: Energy Information Administration Annual
Report to Congress. Volume III: Statistics
and Trends of Energy Supply, Demand, and

Report Fo. DOE/EIR-0036/3, Volume III of 3
volumes, 145 p. volumes, 145 p.
1978, May
RETWORDS: TRANSPORTATION; STATISTICS; TABLES
(DATA): TRENDS; RISTORY; CONSUMERS; EMERGY
CONSUMPTION; EMERGI SUPPLIES; NATURAL GAS;
PETROLEUN; FOSSIL FUELS; EXPORTS; IMPORTS;
GASOLIME; SALES; GEOTHERNAL POWER GENERATION;
SOLAR EMERGY; DIESEL FUELS; RESIDENTIAL
SECTOR; PRICES; ELECTRIC POWER; NUCLEAR
EMERGY; GRAPHS (CHARTS)
AVAILABILITY; GPO

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ADDRESS: Washington, DC 20461

TITLE: Supply, Demand, and Stocks of All Oils by P.A.D. Districts and Imports into the United States, by Country: 1977

Annual Report, Energy Data Reports (formerly Mineral Industry Surveys), 10 p. 1978, May 31 KEYFORDS: PRINCLEUM; IMPORTS; PRODUCTIOM; PEGIONAL ANALYSIS; PETROLEUM PRODUCTS; EMERGY DEMAND; TABLES (DATA)

<666> U.S. Dept. of Energy, Sevada Operations Office ADDRESS: Las Vegas, NV TITLE: Driver Aid and Education Test Project. Final Report

Report No. DOB/CS-0043, v.p. 1978, July SPONSOR: U.S. Dept. of Energy, Division of SPONSON: U.S. Dept. of Raergy, Division of Transportation Energy Conservation KEYMORDS: AUTOMOBILE DRIVERS; EDUCATION; AUTOMOTIVE PUELS; FUEL ECONOMY; AUTOMOBILES; TRUCKS; TESTING; HEASONING INSTRUMENTS; DRIVING CYCLE; PEEDBACK; TABLES (DATA); GRAPAS (CHARTS); HONTHLY VARIATIONS AVAILABILITY; ETIS

<667> U.S. Dept. of Energy, Office of Public Affairs ADDRESS: Washington, DC 20461 TITLE: DOE Proposes Emergency Gasoline Rationing

Department of Energy Information Press Release, B-78-219, 8 p. 1978, June 22 TAYES, JUNE 22

REYNORDS: RATIONING; HEARINGS; EMERGY POLICY;

GASOLINE; ALLOCATIONS; SALES; HARRETING;

VEHICLES; PETROLEDH; GOVERNMENT POLICIES;

AUTOHOBILES; PUBLIC SERVICES; COMSUMERS;

PLANNING; EMERGY POLICY AND CONSERVATION ACT;

EMERGY EMERGENCY PLANNING

<668> U.S. Dept. of Energy, Office of the Under Secretary, Task Force on Alcohol Fuels ADDRESS: Washington, DC 20585 TITLE: Alcohol Fuels Program Plan

Report No. DOE/US-0001/2, v.p. Report No. DOB/US-0001/2, v.p.
1978, March
KEYNORDS: ALCOHOLS; ETHANOL; HETHANOL; LIQUID
FUBLS: ALTERNATE FUBLS; SOCIO-ECONONIC
PACTORS: INDUSTRIAL SECTOR: PRICES: ECONONIC
ANALYSIS; EMERGY RESOURCES; PETROLEUM; EMERGY
EMERGENCY PLANNING; COAL; BIOMASS; SOLID
WASTES; PLANNING; UTILIZATION; RESBARCH;
EMVIRUMMENTAL IMPACT; TABLES (DATA)
AVAILABILITY: GPO, Stock No. 061-000-00064-0

<669> U.S. Dept. of Energy, Office of the Under Secretary, Task Force on Alcohol Fuels ADDRESS: Washington, DC 20545 TITLE: Department of Energy Position Paper on Alcohol Fuels

Report No. DOE/US-0001/1, v.p. 1978, Barch REYWORDS: ALCOROL PUELS; ALTERNATE FUELS; US DOE; ETHANOL: METHANOL: COMMERCIALIZATION: PRODUCTION: FUEL CONSUMPTION: COSTS: UTILIZATION; PLANNING; RESEARCH; GOVERNMENT POLICIES

<670> U.S. Dept. of Interior, Bureau of Mines ADDRESS: Washington, DC TITLE: Minerals Tearbook: 1975. Volum Volume 1. Metals, Minerals, and Fuels

Annual report, 1550 p. RETWORDS: HINERALS; STATISTICS; TABLES (DATA): <670> CONT. <670> CONT.
HETALS: POSSIL PUBLS: PRODUCTION: HINING: RTTRACTION: INDUSTRIES: COAL: NATURAL GAS; PETFOLEM PRODUCTS: URANUM: STATE ANALYSIS: REGIONAL ANALYSIS: RUTER NATURAL TRADE AVAILABILITY: GPO, Stock No. 024-004-01922-1

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D.S. Dept. of Interior, Bureau of Hines
ADDRESS: Washington, DC

TITLE: Minerals in the U.S. Economy: Ten-Year
Supply-Demand Profiles for Mineral and Fuel
Commodities (1966-75)

KEYPORDS: HIMERALS; FUELS; RESOURCES; TABLES
(DATA); SUPPLY (ECOMONICS); DEBAND
(ECOMONICS); HETALS; EMERGY SUPPLIES;
COMMODITIES; TABLES (DATA); EMERGY SOURCES AVAILABILITY: GPO

<672> T.S. Dept. of Interior, Bureau of Hines
ADDRESS: Washington, DC
TITLE: Status of the Hineral Industries: 1977

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KEYWORDS: HIMEBALS; INDUSTRIES; HIMING; HETALS;
GRAPHS (CHARTS); STEELS; PRODUCTION;
ALUMINUM; TRANSPORTATION; ECOMONICS;
PETROLEMR REFIRING; IMPORTS; EXPORTS;
INTERNATIONAL TRADE; CONSTRUCTION MATERIALS;
EN PROJ RESOURCES; COAL; PETROLEUM; NUCLEAR
FUELS; NATURAL GAS; URANIUM; IRON;
BECLANATION; PLASTICS

N.S. Dept. of Interior, Bureau of Hines, Division of Puels Data
ADDWRSS: Washington, DC 20241
TITLE: Rineral Industry Surveys: Petroleus
Refineries in the United States and Puerto
Rico, January 1, 1977

A namel report, 17 p.
1977, July 18
KEYWORDS: PETROLEUH; PUERTO RICO; PETROLEUH
RRFIERRIES; PRODUCTION; CAPACITY;
DISTILLATION; REGIONAL ANALYSIS; TABLES
(DATA); CONSTRUCTION; STATE ANALYSIS

<674> U.S. Dept. of Transportation ADDRESS: Washington, DC TITLE: U.S. Dept. of Transportation Fiscal Year 1979 Budget in Brief

18 p.
1978, January
RETWORDS: BUDGETS; GOVERNMENT POLICIES;
TRANSPORTATION; TABLES (DATA); RAIL
TRANSPORTATION; HABLES (DATA); RAIL
TRANSPORTATION; LEGISLATION; SAPETY; URBAN
TRANSPORTATION; HASS TRANSPORTATION

<675> 7.5. Pept. of Transportation ADDRESS: Washington, DC 20590 TITLE: U.S. Department of Transportation. 10th Annual Report: Piscal Year 1976 Annual Report for Fiscal Year 1976, 97 p. 1978
KETWORDS: US DOT; TRANSPORTATION; TABLES (DATA);
WATEP TRANSPORTATION; AIR TRANSPORTATION;
RAIL TRANSPORTATION; HIGHWAY TRANSPORTATION;
HASS TRANSPORTATION; HATERIALS; SAPETY; RAILROADS AVAILABILITY: GPO, Stock No. 500-000-00137-7

<676> <676> U.S. Dept. of Transportation; U.S. Environmental Protection Agency ADDRESS: Washington, DC TITLE: Study of Potential for Notor Vehicle Puel Economy Improvement: Fuel Economy Test Procedures Panel Report

Report No. 6, 75 p.
1975, January 10
KEYWORDS: FUEL ECOMONY; MOTOR VERICLES; FUEL
COMSUMPTION; TESTING; TABLES (DATA);
AUTOMOBILE TRANSFISSIONS; URBAN
TRANSPORTATION; WEIGHT; SPEED LIMITS;
INTERSTATE TRANSPORTATION; HISTORY;
AUTOMOTIVE EMISSIONS; AUTOMOBILES; WEATHER;
DRIVING CYCLE

U.S. Dept. of Transportation; U.S. Environmental Protection Agency
ADDRESS: Washington, DC
TITLE: Study of Potential for Motor Vehicle Fuel Economy Improvement: Safety Implications Panel Report

Report No. 2, 45 p. 1975, January 10 KEYWORDS: FUEL ECOMONY; WEIGHT; SPEED LIMITS; ORDS: FUEL ECONOMI; WEIGHT; SPEED LIMITS; SAPETY; AUTOHOBILES; TRANSPORTATION; STATISTICS; TABLES (DATA); URBAN AREAS; INJURIES; STATE ANALYSIS; HISTORY; SALES; MANUPACTURERS; RUBAL AREAS; AUTOHOTIVE ENGINES; TRAPPIC CONTROL; ACCIDENTS; PERFORNANCE; DRIVING CYCLE

<678> (678)
U.S. Dept. of Transportation; U.S. Environmental Protection Agency
ADDRESS: Washington, DC
TITLE: Study of Potential for Motor Vehicle Fuel Economy Improvement: Air Quality and Emissions Panel Report

Report No. 3, 54 p.
1975, January 10
REFFORES: FOEL ECOBORY: HILEAGE; AUTOHOTIVE
BRISSIONS; AIR QUALITY: DIESEL ENGINES;
TABLES (DATA); TRUCKS; FORECASTING; GROWTH;
HYDROCABONS; CARBON HOOXIDE; NITROGEN
OKIDES; AUTOHOBILES; HISTORY; GASOLINE;
HODELS; TRANSPORTATION

<679> U.S. Dept. of Transportation, Coast Guard ADDRESS: Washington, DC 20590 TITLE: Boating Statistics: 1977

Bineteenth annual report, Report No. CG-357, 41 p. 1978, Hay 1 REYBORDS: BOATS; SAPETY; ACCIDENTS; STATE ANALYSIS; TABLES (DATA)

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U.S. Pept. of Transportation, Coast Guard ADDRESS: Washington, DC TITLE: Recreational Boating in the Continental United States in 1973 and 1976: The Wationwide Boating Survey

Report Fo. AD-A052907, CG-B-003-78, v.p.
1978, Harch
REYWORDS: RECREATION: TRANSPORTATION; BOATS;
SAFETT; SURVEYS: QUESTIONWAIRES;
COMMODUICATION; EQUIPMENT; ACCIDENTS; WATER
TRANSPORTATION; HAPS; TABLES (DATA)
AVAILABILITY: NTIS

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U.S. Dept. of Transportation, Coast Guard, Harine Safety Council
ADDRESS: Washington, DC
TITLE: Pinal Environmental Impact Statement:
Regulations for U.S. Tank Vessels Carrying Oil in Foreign Trank Vessels that Enter the Mavigable Waters of the United States

Pinel Report, 131 p.
1976, October
KEYWORDS: POLLUTION REGULATIONS; MARINE
TRANSPORTATION; INTERNATIONAL TRADE;
PETROLEUR; TANKER SHIPS; WATER POLLUTION;
ENVIRONMENTAL IMPACT; CONSTRUCTION; DESIGN;
ECONOMIC IMPACT

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U.S. Dept. of Transportation, Federal Aviation Administration
ADDRESS: Washington, DC 20591
TITLE: Report to Congress by the Federal Aviation Administration on the Energy Efficiency of Agency Regulations

Report No. AD/A-034611, 120 p.
1976, December
RETWORDS: AVIATION PUBLS; AIR TRANSPORTATION;
AIRCRAFT; TRAFFIC; REGULATIONS; FUBL
CONSUMPTION; TESTING; NOISE (SOUND): AIR
POLLUTION CONTROL EQUIPMENT; VELOCITY;
EQUIPMENT; FUBL ECONOMY; EFFICIENCY
AVAILABILITY: HTIS

<683> U.S. Dept. of Transportation, Pederal Aviation Administration, Office of Aviation Policy ADDRESS: Washington, DC 20591 TITLE: Aviation Porecasts - Fiscal Years 1978-1989

Report No. PAA-AVP-77-32, 169 p.
1977, September
REYUGDS: FORECASTING: AVIATION: STATISTICS:
AIRCRAFT: SOCIO-BCOMONIC PACTORS: CONNUTING:
ECONOMETRIC RODELS: AIR TRANSPORTATION:
PHOTOGRAPHS: REGIONAL ANALYSIS: REVENUE:
PASSENGER TRANSPORTATION: CARGO
TRANSPORTATION: TABLES (DATA): GRAPHS
(CHARTS): HATHEMATICAL HODELS: AIRPORTS

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U.S. Dept. of Transportation, Pederal Aviation
Administration, Office of Aviation Policy
ADDRESS: Washington, DC 20591
TITLE: Terminal Area Porecast - 1978-1988
Report No. PAA-AVP-77-17, v.p.
1977, April 8

KETWORDS: PORECASTING; PASSENGER EMPLANEMENTS; AIRPORTS; HAPS; RECIONAL ANALYSIS; TABLES (DATA); GROWTH; AIR TRANSPORTATION; AVIATION AVAILABILITY: MTIS

<685>
U.S. Dept. of Transportation, Federal Aviation Administration, Office of Aviation Policy ADDRESS: Washington, DC 20591
TITLE: Third Annual FAA Forecast Conference Proceedings

Report No. PAA-AVP-78-7, proceedings of conference held in Reston, Virginia, December 1977, 68 p.
1978, June
KEYWORDS: FORECASTING; AIR TRANSPORTATION; FEDERAL AVIATION ADMINISTRATION; PLANNING; STATE GOVERNMENT; LOCAL GOVERNMENT; CONNUTERS; CONFERENCES

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U.S. Dept. of Transportation, Federal Aviation Administration, Office of Aviation Policy, Aviation Forecast Branch ADDRESS: Washington, DC 20591
TITLE: Profiles of International Passengers at U.S. Airports, 1976

Report No. PAR-AVP-77-27, 319 p.
1977, April
REYNORDS: AIRPORTS; INTERNATIONAL TRAVEL;
PASSENGER TRANSPORTATION; AIR TRANSPORTATION;
TABLES (DATA); GRAPHS (CHARTS); PASSENGER
ENPLANMENENTS; REGIONAL ANALYSIS

<687>
U.S. Dept. of Transportation, Pederal Aviation Administration, Office of Management Systems, Information and Statistics Division ADDRESS: Washington, DC 20591
TITLE: Current Aviation Statistics: Air Traffic Activity, Piscal Year 1976

Report No. AD-A032605, 22 p.
1976, November
KEYNORDS: AIR TRANSPORTATION; STATISTICS; TABLES
(DATA); TRAFFIC; AIRPORTS; AIRCRAFT; SERVICES
AVAILABILITY: NTIS

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U.S. Dept. of Transportation, Federal Highway
 Administration
ADDRESS: Washington, DC
TITLE: Highway Statistica, Summary to 1975
Report No. PB-273520, PHWA-HP-HS-S75, 29% p.
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Report No. PB-273520, FHWA-HP-HS-575, 294 p.
1977
RETWORDS: HIGHWAY TRANSPORTATION; STATISTICS;
HISTORY; UTILIZATION; FINANCING; FUBLS;
YBHICLES; LICEWSING; AUTOHOBILE DRIVERS;
TAXES; STATE GOVERNMENT; VERICLE
REGISTRATIONS; TRAVEL; LOCAL GOVERNMENT;
TABLES (DATA)
AVAILABILITY; NTIS; GPO, Stock No. 050-001-00129-2

<669> U.S. Dept. of Transportation, Pederal Righway Administration ADDRESS: Washington, DC <689> COFT.
TITLE: Computer Programs for Orban Transportation Planning: PLAWPAC/BACKPAC. General Information Hanual

450 p.
1977, April
RETWORDS: COMPUTER PROGRAMS; URBAN
TRANSPORTATION; PLANNING; IMPORMATION; LAND
USE; VERICLE TRIPS; TRAFFIC; SIMULATION;
TRAVEL; AIR QUALITY; BIBLIOGRAPHIES
AVAILABILITY: GPO, Stock No. 050-001-00125-0

<690>
U.S. Dept. of Transportation, Pederal Highway Administration
ADDRESS: Washington, DC
TITLE: Nationwide Personal Transportation Study: Transportation Characteristics of School Children

Report No. 4, 32 p.
1975, July
RETWORDS: TRANSPORTATION; TRAVEL; TRAVEL TIME;
MILEAGE; SCHOOLS; CHILDREN; BUSES (VEHICLES);
BICYCLES; PUBLIC TRANSPORTATION; SURVEYS;
PASSENGER TRANSPORTATION; STATISTICS; TABLES
(DATA); VEHICLE HILES TRAVELED; DISTANCE; AGE

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U.S. Dept. of Transportation, Federal Highway Alainistration
ADDRESS: Fashington, DC
TITLE: Fationwide Personal Transportation Study: wode of Transportation and Personal Characteristics of Tripsakers

Report No. 9, 49 p.
1973, November
KEYWORDS: TRAVEL; PUBLIC TRAESPORTATION; HOTOR
VEHICLES; TRANSPORTATION HODE CHOICE;
PASSE-GRR TRANSPORTATION; AGE GROUPS;
SURVEYS; CENSUS; ALE TRANSPORTATION; TRUCKS;
VEHICLE HILES TRAVELED; DISTANCE;
SOCIO-ECOMONIC FACTORS; TABLES (DATA)
AVAILABILITY; GPO

<692> U.S. Dept. of Transportation, Pederal Highway Administration ADDRESS: Washington, DC TITLE: Righway Statistics: 1976

Report No. PRWA-HP-HS-76, 161 p.
1976
REFFORDS: HIGHWAYS; STATISTICS; HIGHWAY
TRANSPORTATION: VEHICLES; LICENSES;
AUTOROTYSE PURLS; PUEL CONSUMPTION: TAXES;
STATE GOVERNMENT; VEHICLE REGISTRATIONS;
REVERUE; RATES (COSTS); TRAVEL; VELOCITY;
SPEED LIMITS; FINANCING; GOVERNMENT POLICIES
ROADS; MILEAGE; TABLES (DATA); OWNERSHIP;
EXPENDITURES; LOCAL GOVERNMENT
AVAILABILITY; GPO

<693> U.S. Dept. of Transportation, Federal Railroad Administration ADDRESS: Washington, DC TITLE: Rail Passenger Statistics in the Northeast Corridor: 1974-75 1976, March
KEYHORDS: RAIL TRANSPORTATION; PASSENGER
TRANSPORTATION; BORTHEASTERN STATES;
CAPACITY; STATISTICS

<694> U.S. Dept. of Transportation, Pederal Railroad Administration, Government Industry Task Force on Railroad Electrification ADDRESS: Washington, DC 20590 TITLE: A Review of Factors Influencing Bailroad Electrification

V.D.
1974
REYPORDS: RAIL TRANSPORTATION; RAILROADS;
ELECTRIC VEHICLES; CAPITAL; EUROPE; JAPAN;
RAILROADS; MILEAGE; GOVERNMENT POLICIES;
ELECTRIC POWER; ELECTRIC RAIL SYSTEMS

<695> U.S. Dept. of Transportation, National Highway Traffic Safety Administration ADDRESS: Washington, DC 20590 TITLE: Automotive Fuel Economy Program: Second Annual Report to the Congress

Report No. DOT-HS-803207, 45 p.
1972, January
REYMORDS: AUTOMOTIVE PUBLS: FMEL ECOMONY;
REGULATIONS: PASSENGER TRANSPORTATION;
HATIONAL EMERGY PLAN: HARVIACTUBERS: EMERGY
COMSUMPTION; PETROLEUM: STANDARDS; RESEANCH
PROGRAMS; VENICLE HILES TRAVBLED; MILEAG.,
GOVERNMENT POLICIES; GASOLINE

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U.S. Dept. of Transportation, National Highway Traffic Safety Administration
ADDRESS: Washington, DC 20590
TITLE: Applicability of Federal Hotor Vehicle Standards to Electric and Hybrid Vehicles

Report No. DOT-HS-802611, 36 p.
1970, January
KEYHORDS: HOTOR VEHICLES; SAFETY; STANDARDS;
PERFORMANCE; ELECTRIC VEHICLES; PASSENGER
TRANSPORTATION; TESTING; ACCELERATION; HYBRID
ELECTRIC-POWERE VEHICLES; PUSES (VEHICLES);
TRUCKS; COSTS

<697>
G.S. Dept. of Transportation, National Highway Traffic Safety Administration, Office of Passenger Vehicle Research, Technology Assessment Division ADDRESS: Washington, DC 20590 TITLE: Automotive Fuel Economy Contractors' Coordination Neeting: Summary Report

Report No. DOT-HS-803362, Summary Report of the Automotive Fuel Economy Research and Analysis Program Contractors' Coordination Heeting held in Washington, DC, April 24-26, 1978, 899 p.

1978
KRIWORDS: FUEL ECONOMY; PUEL CONSUMPTION;
HEETINGS; STANDARDS: TRANSPORTATION;
EFFICIENCY: RESEARCH PROGRAMS: DATA
COLLECTION; STATISTICS; TECHNOLOGY;
ENGINEERING; HANDFACTURING; HARRETING;
GOVERNMENT POLICIES; DIESEL ENGINES; SPARK
IGNUITION ENGINES; AUTOHOTIVE TRANSMISSIONS;
CONSUMERS; HAINTENANCE; VEHICLES; TESTING;

61p.

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U.S. Dept. of Transportation, Mational Highway
Traffic Safety Administration, Technical
Beforence Division
ADDRESS: Washington, DC 20590
TITLE: Twel Econey ... A Subject Bibliography
from Highway Safety Literature

Report No. PB-265387, DOT RS-802 147, v.p.
1977, January
KEYWORDS: BIBLIOGRAPHIES; RIGHWAY TRANSPORTATION;
FORL ECONOMY; BRENCY CONSERVATION;
FREFORMANCE; PASSENGER TRANSPORTATION;
TRUCKS; GASOLINE; FORL CONSUMPTION;
AUTOMOTIVE EMISSIONS; GOVERNMENT POLICIES;
REGULATIONS; AUTOMOBILES; ENGINES; SAFETY
AVAILABILITY: ETIS

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U.S. Dept. of Transportation, Office of the Secretary
ADDRESS: Washington, DC
TITLE: The Status of the Wation's Highways:
Conditions and Performance. Report of the Secretary of Transportation to the United States Congress, Parsmant to Section 3, Public Law 89-139

Congressional Consittee Print No. 95-29, 483 p. 1977, September
SPOMSOR: U.S. House of Representatives, Consittee on Public Works and Transportation
RETWORDS: HIGHWAYS; TRAYEL; PERFORMANCE;
INVESTMENTS; BEGIOWAL ANALYSIS; FORECASTING;
TABLES (DATA); GRAPHS (CHARTS)

<700> U.S. Dept. of Transportation, Office of the Secretary ADDRESS: Washington, DC TITLE: 1978 Wational Transportation Study. Manual I: General Information

Report No. Off8-04-3-72004, 66 p.
1972, May
KEYNOR DS: TRANSPORTATION; STATE ANALYSIS;
SUPVEYS; PLANNING; ORGANIZATIONS; STATE
GOVERNMENT: AIMPORTS; RIGHNAIS;
TPANSPORTATION SISTEMS; GOVERNENT POLICIES;
EPPICIENCY; SAPETY; ENVIRONMENTAL IMPACT;
TABLES (DATA)

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U.S. Dept. of Transportation, Office of Transportation Planning Analysis ADDRESS: Washington, DC TITLE: Catalog of Tabulations: 1979 Fational Transportation Study

Y.D.
1975, Pebruary
RETWORDS: TRANSPORTATION; STATE ANALYSIS; TABLES
(DATA); URBAN TRANSPORTATION; CAPITAL COSTS;
GROWTH; BIGHWAYS; BUSBS (VEHICLES); ARPORTS;
RAIL TRANSPORTATION; CONSUTERS; VEHICLE HILES
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<702> U.S. Dept. of Transportation, Transportation Systems Center, Technology Sharing Program Office ADDRESS: Kendall Square, Cambridge, HA 02142 TITLE: Bural Passenger Transportation: State-of-the-Art Overview

V.P.
1976, October
REYWORDS: ELDERLY; RURAL TRANSPORTATION;
PASSENGER TRANSPORTATION; POVERTY; RURAL
ARRAS; POPULATION (STATISTICS); OWNERSHIP;
TABLES (DATA); SOCIO-ECOMONIC PACTORS;
REGIONAL ANALYSIS; PUBLIC TRANSPORTATION;
AUTOHOBILES; HOBILITY; TRANSPORTATION
SYSTEMS; TRANSPORTATION DISADVANTAGED; STATE
ANALYSIS

<703> U.S. Dept. of Transportation, Transportation Systems Center, Technology Sharing Program Office ADDRESS: Kendall Square, Cambridge, HA 02142 TITLE: Light Rail Transit: State-of-the-Art Overview

79 p.
1977, Hay
SPONGOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of R & D Policy; U.S.
Dept. of Transportation, Urban Hass
Transportation Administration
RETWORDS: LIGHT RAIL TRANSIT; PASSENGER
TRANSPORTATION; URBAN TRANSPORTATION;
COMPARATIVE EVALUATIONS; REGIONAL AWALYSIS;
CAWADA; RIGHT-OF-WAY; TABLES (DATA); HAPS

U.S. Dept. of Transportation, Transportation
Systems Center, Technology Sharing Program
Office
ADDRESS: Kendall Square, Cambridge, HA 02142
TITLE: Rural Passenger Transportation Primer
Selected Transportation Topics, 70 p.
1977, January
SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of R 5 D Policy
KEYWORDS: RURAL TRANSPORTATION; REGIONAL
ANALYSIS: POWERTY: HIMMESOTA; SOUTH CAROLIMA;
PASSENGER TRANSPORTATION; PLANNING;
PENNSILVANIA; ELDERLY; BIBLIOGRAPHIES; STATE
ANALYSIS: TRANSPORTATION DISADVANTAGED

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U.S. Dept. of Transportation, Transportation Systems Center, Technology Sharing Program Office ADDRESS: Kendall Square, Cambridge, NA 02142 TITLE: Hini-bus Profile

Selected Transportation Topics, 41 p.
SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of R & D Policy
REYWORDS: BUSES (VERICLES); PASSENGER
TRANSPORTATION; ENGINES; TABLES (DATA);
DESIGN; ELECTRIC VEHICLES; DIRECTORIES;
HARDPACTORERS; FUEL CONSUMPTION; PERFORMANCE

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Transportation (Application Control of Co

DIVISION
ADDRESS: Kendall Square, Cambridge, NA 02142
FITTE: Transportation Safety Information Report:
October, November, and December 1977 and
Annual Sussary

Quarterly Report, Report No. HTISUB/C/228-004, DOT-TSC-928-77-8, 113 p.

REPURDS: TRANSPORTATION; SAPETY: ACCIDENTS: INJURIES; GRAPES (CHARTS); TABLES (DATA) AVAILABILITY: BTIS

7.5. Dept. of Transportation, Transportation Systems Center, Transportation Information Divison

DIVISOR
ADDRESS: Kendall Square, Cambridge, NA 02142
TITLE: Profiles of Scheduled Air Carrier
Passenger Traffic for Top 100 U.S. Airports,
August 6, 1976

Report No. PAN-AVP-77-30, 207 p.
1977, July
SPONSOR: U.S. Dept. of Transportation, Federal
Aviation Administration, Office of Aviation
Policy, Aviation Porecast Branch
KEYWORDS: AIR TRANSPORTATION: AIRCRAFT: TRAFFIC;
PASSENGER TRANSPORTATION: AIRPORTS: TABLES
('AATA): GRAPHS (CHARTS): PASSENGER
EFPLAWEMENTS: SERVICES

<708> U.S. Dept. of Transportation, Urban Hass Transportation, definite ration

Transportation Administration

DDRESS: Washington, DC 20590

TITLE: "rban Hass Transportation Act of 1964 and

Related Laws, as Amended Through Pebruary 5,
1976

131 p.
FEYWORDS: URBAN TRANSPORTATION; HASS
TRANSPORTATION; LEGISLATION; GOVERNMENT
POLICIES; REGULATIONS
RVAILABILITY: GPO, Stock Ro.
050-014-00007-0/Catalog No. TD 7.5:UR1/3

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U.S. Dept. of Transportation, Urban Mass
Transportation Administration, Office of
Technology Development and Deployment, Office
of AGT Applications; U.S. Dept. of
Transportation, Transportation Systems
Center, Technology Shacing Program Office
ADDRESS: DOT/UHTA, Trans Point Building, 2100 2nd
Street SW, Washington, DC 20590: DOT/TSC,
Rendall Square, Cambridge, HA 02142
TITLE: People Hover Profiles

35 p.
1977, Hay
KETYORDS: PASSENGER TRANSPORTATION; URBAN AREAS;
PHOTOGRAPHS; DERONSTRATION; OPERATION;
PERFORMANCE; AUTORATED GUIDBRAY TRANSIT

<710> U.S. Dept. of Transportation, Urban Hass Transportation Administration, Policy and Program Development, Office of Program Evaluation
ADDRESS: Washington, DC 20590
TITLE: The UHTA Mail Modernization Program. The Distribution of Capital Grant Funds for Rail Rehabilitation and Hodernization, 1965-1977

1976, July
RETWORDS: RAIL TRANSPORTATION; CAPITAL COSTS;
ENERGY CONSUMPTION; RAPID TRANSIT SYSTEMS;
GROWTH; GOVERNMENT POLICIES; REGIONAL
ANALYSIS; US DOT; HALNTENANCE; RETROPITTING;
HODERNIZATION; OPERATING COSTS; EMPLOYMENT;
PASSENGER TRANSPORTATION; COMMUTERS; TABLES
(DATA); FAILROADS; FUNDING

<711> U.S. Environmental Protection Agency, Emission U.S. Environmental Protection Agency, Emission Control Technology Division, Standards Development and Support Branch ADDRESS: Ann Arbor, HI 46105 TITLE: The Effect of Dynamometer Inertia Increment and Power Setting on Emissions and Fuel Economy for Hotorcycles. Technical Support Report for Regulatory Action

Report No. PB-270721, HC 75-03, 13 p. 1975, August
RETWORDS: HOTORCYCLES; DYNAHOHETERS; EMISSIONS;
PUBL CONSUMPTION; TABLES (DATA); FUBL
ECOMOMY; TESTING; HOMENT OF INERTIA; MEIGHT
AVAILABILITY: MTIS

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U.S. Environmental Protection Agency, Emission Control Technology Division, Standards Development and Support Branch ADDRESS: Ann Arbor, HI 48105
TITLE: Motorcycle Usage. Technical Support Report for Regulatory Action

Report No. PB-270710, RC 76-02, 15 p.
1976, January
KBYWORDS: SURVEYS; UTILIZATION; HOTORCYCLES;
SIZE; TRANSPORTATION; EMISSIONS; CONNUTING;
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T.S. Environmental Protection Agency, Office of Transportation and Land Use Policy ADDRESS: Washington, DC 20460
TITLE: Bicycle Strategies to Reduce Air Pollution

Report No. EPA-400/9-78-008, 20 p.
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KRYFORDS: BICYCLES; AIR POLLUTION; ENVIRONMENTAL PROTECTION AGENCY; CONHUNITY DEVELOPMENT; EDUCATION; PLANNING; ROADS

<714> U.S. House of Representatives, Committee on Government Operations ADDRESS: Washington, DC 20510 TITLE: Department of Energy Organization Act

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<718> <718> CONT. RETWORDS: US DOE; REARINGS; EMERGY POLICY; GOVERNMENT POLICIES

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Series B, USITC Publication No. 839, 103 p.
1977, October
KPTWORDS: AUTOMOBILES: STATISTICS: TABLES (DATA);
INTERNATIONAL TRADE: IMPORTS: SALES: EXPORTS:
COMSUMPTION: PRICES: VEHICLE REGISTRATIONS

<716> U.S. Senate, Committee on Energy and Natural Resources ADDRESS: Washington, DC *ITLE: Economic Impact of President Carter's Energy Program

Congressional Committee Print, 95th Congress, 1st Session, Publication No. 95-33, hearings held Hay 3, 1977, 180 p.

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REYFORDS: ECONOMIC IMPACT; EMERGY POLICY;
MATIONAL EMERGY PLAN; TAXES; GASOLINE; FUEL
ECONOMY; TRANSPORTATION; THERNAL INSULATION;
EMERGY COMSENVATION; INDUSTRIAL SECTOR;
UTILITIES; PRICES; PETROLUN; MATURAL GAS;
COAL: RESEARCH; MUCLEAR EMERGY; MUCLEAR
REACTOR SAFETY; SOLAR EMERGY;

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Publication No. 95-8, 95th Congress, 1st Session,

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1977, March
REWORDS: REGULATIONS; PETROLEUM; PRICES;
ECONOMIC IMPACT; SUPPLY (ECONOMICS);
PRODUCTION; TABLES (DATA); GRAPHS (CHARTS);
LEGISLATON; GOVERNEET POLICIES
AVAILABILITY; U.S. Senate Committee on Energy and Matural Resources

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U.S. Senate, Consittee on Energy and Hatural Resources, Subcommittee on Energy Conservation and Regulation ADDRESS: Washington, DC TITIE: Handatory Energy Conservation Amendments to President Carter's Energy Program

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RETWORDS: AUTOBOBILES; WATIONAL EMERGY PLAN; WORDS: AUTOMOBILES; WATTORAL EMBROY PLAN; EMBROY COMSERVATION; TRANSPORTATION; GOFFRHRENT POLICIES; BOUIPRENT; EFFICIENCY; STANDARDS; RESIDENTIAL SECTOR; SPACE HEATING; ELECTRIC HOTORS; ELECTRIC POWER DEHAND; FURBACES; EMBROY CONSUMPTION; BEVERAGES; PUBL ECOMONT; TRUCKS; TABLES (DATA)

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U.S. Senate, Committee on Energy and Matural Resources, Subcommittee on Energy Conservation and Regulation ADDRESS: Washington, DC TITLE: Status of Federal Energy Conservation Programs. Parts 1 and 2

Congressional Committee Print, 95th Congress, 1st Seesion, Serial No. 95-91, 282 p. for Part I, 992 p. for Part 2, hearings held April 4 and 6, 1977

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POLICIES; EMERGY SHORTAGES; IMPORTS;
PETROLEUM; ENERGY RESOURCES; EMERGY
COMSUMPTION; IMPUSTRIAL SECTOR;
TRANSPORTATION; SOLAR EMERGY; PRICES; INCOME;
EMERGY SUPPLIES; RESIDENTIAL SECTOR;
RETROFITTING; BUILDINGS; APPLIANCES; GRAPHS
(CHARTS); COSTS; COGENERATION; ELECTRIC
POWER; TABLES (DATA); PERFORMANCE; STANDARDS;
AUTOHOBILES; EQUIPHENT

<720> U.S. Senate, Committee on Energy and Natural Resources, Subcommittee on Energy Conservation and Regulation ADDRESS: Washington, D.C. TITLE: Diesel Fuel and Gasoline Conservation Act of 1977

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RETWORDS: DIESEL FUELS; GASOLINE; PNERGY CONSERVATION; US DEPT OF COMMERCE; GOVERNMENT POLICIES; TRUCKS; TRANSPORTATION; FOOD INDUSTRY; CONSUMERS; MANUFACTURERS; DISTRIBUTION; FUEL CONSUMPTION; LEGISLATION; CARGO TRANSPORTATION

<721> U.S. Senate, Committee on Governmental Affairs ADDRESS: Washington, DC TITLE: Department of Energy Organization Act

Congressional Committee Print, Report No. 95-164 to accompany S.826, 95th Congress, 1st Session, 125 p.

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RETWORDS: US DOE: LEGISLATION; EMERGY POLICY;
GOVERNMENT POLICIES: US PEA; US ENDA; PEDERAL
POWER COMMISSION; EMERGY COMSERVATION;
REGULATIONS
AVAILABILITY: GPO

<722> U.S. Senate, Cossittee on Governmental Affairs ADDRESS: Washington, DC TITLE: Department of Energy Organization Act

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RETWORDS: US DOE: EMERGY POLICY; LEGISLATION; GOVERNMENT POLICIES; HEARINGS AVAILABILITY: GPO

<723> U.S. Travel Data Center

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RETWORDS: TRAVEL; SURVEYS; TABLES (DATA); TOURISH; AUTOHOBILES; TRUCKS; AIR TRANSPORTATION; REGIONAL ANALYSIS; VEHICLE TRIPS AVAILABILITY: \$20.00

<724> U.S. Travel Data Center ADDRESS: Suite 410, 1100 Connecticut Avenue NW, Washington, DC 20036 TITLF: Proceedings: 1978 Travel Outlook Forus

Proceedings of conference held Washington Hilton Hotel, Washington, D.C., December 1, 1977, 171 p.

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RFTWORDS: TRANSPORTATION: TRAVEL: RMRRGY POLICY;
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FATIONAL EMERGY PLAN; GRAPHS (CHARTS);
TOURISH; ECONORIC ASSLIVES; INTERNATIONAL
TRAVEL; AIR TRANSPORTATION: RECREATIONAL
TRAVEL; AUTONOBILES; BUSES (VENICLES); RAIL
TRANSPORTATION; NOTELS; TARLES (DATA)
AVAILABILITY: \$25,00

N.S. Travel Data Center ADDRESS: 1100 Connecticut Ave. NW, Washington, DC 20036 TITLE: Survey of State Travel Offices: 1977-1978 Annual Peport, 82 p.
1977, October 31
RETWORDS: TRAVEL: TOURISH: STATE ANALYSIS; PUBLIC RELATIONS

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TARLES (DATA); POOD; WREKEND TRAVEL; SOCIO-RODWOTC PROTORS; FRICLE HILES TRAFELED; BUSES (VEHICLES); RAIL TRAFELED; BUSES (VEHICLES); RAIL TRAFFORTATION AVAILABILITY: \$25.00

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T.S. Travel Data Center
RDDRESS: 1100 Connecticut Avenue NV, Mashington
DC 20016
TTTLF: The Impact of Travel on State Recognises:
1976

56 p. 1978 TYPE THE TRAVEL; STATE ANALYSIS; WENTELE RILES TRAVELED; EXPRECIPERS; AUTOMORILES; PORBLE TRANSPORTATION; POOD; REVERUP; NOTELS; PROPLOTRENT; STATISTICS; TABLES (DATA); PAYROLLS; ECONOMIC INPACT AVAILABILITY: \$15.00

(728> Virichson, D.L. Iowa State University, Dept. of Science and Technology ADDRESS: Ames, IA 50011
TITLE: Pleet Test of Re-Refined Oil. First Annual Progress Report

Report No. COO-4074-3, 10 p. 1977, May SPONSON: Energy Research and Development Administration KEYWORDS: LUBRICATING OILS; PPTROLEUM PRODUCTS; TESTING; PERPORMANCE; AUTORORILES; TRUCRS; AUTOROTIVE FLERTS; TRANSPORTATION; COMPARATIVE EVALUATIONS; TABLES (DATA); OILS; PRTROLEUM REPINING AVAILABILITY: MTIS

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Underhill, B.; Gott, P.; Hurter, D.; Hathews, H.;
 Hetcalf, E.; Micol, J.; Parry, J.; Stratton,
 L.; Strong, S.; Dullivan, D.; Teeters, P.;
 Whittier, A.
Little (Arthur D.) Inc.
ADDRESS: 25 Acorn Park, Cambridge, MA 02140
TITLE: Recommended Performance Standards for Blectric and Hybrid Vehicles

Report No. SAM/1335-1, 164 p.
1977, September
SPONSOR: Energy Remearch and Development
Administration, Division of Transportation
Energy Conservation
RETWORDS: ELECTRIC VEHICLES: HYBRID
ELECTRIC-POWERRO VEHICLES: PREPORHANCE;
STANDARDS; RESEARCH; QUESTIONNAIRES; SURVEYS;
TABLES (DATA); GRAPHS (CHARTS)

Union College, Graduate Studies and Continuing Union College, Graduate Studies and College, Reducation
ADDRESS: Schenectady, NY 12308
TITLE: Fourth National Conference on the "Refects of Energy Constraints on Transportation

Proceedings of a conference held at Union College, Schenectady, New York, on August 1-5, 1977, v.p.

1977
SPONSOR: Energy Research and Development Administration, Division of Transportation Emergy Conservation, Division of Transportation Emergy Conservation; Comprehences; Emergy Shorrages; Planning; Efficiency; Intercity Transportation; Passenger Transportation; Cargo Transportation; Air Transportation; Intracity Transportation; Air Transportation; Intracity Transportation; Air Transportation; Entercity Transportation; Government Policies; Electric Vehicles; Research; Emergy Consumption

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Paper No. 780215, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Michigan,

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Pebruary 27 - Harch 3, 1978, 13 p.

1978
REYWORDS: BLECTRIC VEHICLES; HODBLS; PERFORMANCE;
BLECTRIC VEHICLE RANGE; DRIVING CYCLE;
BATTERIES; SIZE; GRAPES (CHARTS)
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<732> Urban Consortium for Technology Initiatives, Transportation Task Force; Public Technology Inc. ADDRESS: PTI, 1140 Connecticut Ave EW, Washington, DC 20036 TITLE: Urban Goods Hovesent Information Bulletin, 22 p.

Information Bulletin, 22 p.
1978, February
SPOWSOR: U.S. Dept. of Transportation
KEYWORDS: COHNODITIES; CARGO TRANSPORTATION;
TRUCKS; BALIROADS; LOCAL GOVERNBENT; URBAN
AREAS; TRAFFIC; INSTITUTIONAL PACTORS;
PLANNING
AVAILABILITY: WIIS

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Urban Consortium for Technology Initiatives,
Transportation Task Force; Public Technology
Inc.
ADDRESS; PTI, 1140 Connecticut Ave., NW,
Washington, DC 20036
TITLE: Alternative Work Schedules
Information Bulletin, 25 p.
1978, February

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SPOHSOR: U.S. Dept. of Transportation
REYFORDS: SCHEDULING: COMBUTING: WORKING
CONDITIONS: RESEARCH: DEHOUSTRATION;
DIRECTORIES: TRAFFIC: TRANSPORTATION
AVAILABILITY: HTIS

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Urban Consortium for Technology Initiatives,
Transportation Task Porce: Public Technology
Inc.
ADDRESS: PTI, 1140 Connecticut Ave. NW,
Washington, DC 20036
TITUS: Asphalt Improvements
Information Bulletin, 29 p.
1976, October
SPONSOR: U.S. Dept. of Transportation
KETYORDS: HIGHWAYS; CONSTRUCTION; ASPHALTS;
CONCRETES; RECYCLING; ADDITIVES

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Trban Transportation Systems Associates Inc.
TITLE: Traffic Count Program. Volume II: Design and Development. Volume II: Program Documentation

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SPONSOR: Rhode Island Dept. of Transportation,
Flanning Division; U.S. Dept. of
Transportation, Pederul Righway Administration
RETWORDS: TPAFFIC COUNT; VEHICLE MILES TRAVELED;
AUTOROSILE OCCUPANCE; SEASONAL VARIATIONS;
TRUCKS; VEISHT; AUTOROSILES; RRODE ISLAND;
REASURING INSTRUMENTS; COMPUTER PROGRAMS;
RIGHRYS
RVALLABILITY: Rhode Island Dept. of
Transportation, Planning Division, State

Office Building, Providence, RI 02903

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Yealer, L.E.; Brooman, E.W.
Battelle Columbus Laboratories
ADDRESS: Columbus, OR
FITLE: Hathematical Hodel for the Design of Grids
for Electric Vehicle Batteries

Paper No. 780221, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Hichigan, February 27 - Harch 3, 1978, 12 p. 1978 KEYNORDS: ELECTRIC VEHICLES; LEAD-ACID BATTERIES; HODELS; PERFORMANCE; DESIGH; TABLES (DATA) AVAILABILITY: Society of Automotive Engineers Inc. 400 Commonwealth Drive, Warrendale, PA 15096 \$2.50

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Yan Abkoude, J.C.
RCDonnel Douglas Corp., Douglas Aircraft Co.
ADDRESS: Long Beach, CA 90846
TITLE: Cost/Benefit Tradeoffs for Reducing the
Beergy Consumption of the Commercial Air
Transportation System. Volume II: Harket
and Economic Analyses

Report Bo. M77-23073, NASA CR-137924, EDC J7340, 375 p.
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SPONSOR: Rational Aeronautics and Space
Administration, Ames Research Center
KEYFORDS: BENEFIT COST ANALYSIS; EMERGY
CONSURPTION; EMERGY COMSERVATION; AIR
TRANSPORTATION; PASSENGER TRANSPORTATION;
ECOMORIC ANALYSIS; OPERATING COSTS; RARRET;
TABLES (DATA); GRAPHS (CHRITS); DESIGN; FUEL
CONSUMPTION; COMPARATIVE EVALUATIONS; PROPITS
AVAILABILITY; HTIS

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van Giessel, R.; Reinink, P.
R.V. Philips' Gloeilampenfabrieken
ADDRESS: Germany
TITLE: Design of the 4-215 D.A. Automotive
Stirling Engine

Paper No. 770082, presented at the Society of Automotive Engineers' International Automotive Congress and Exposition, Cobo Hall, Detroit, Michigan, Pebruary 28-March 4, 1977, 16 p. 1977 1978

SPONSOR: Society of Automotive Engineers
RETHORDS: STIRLING ENGINES: PERFORMECS: PUBL.
BCOHONY: DESIGN; DIAGRAMS: GRAPHS (CHARTS):
PHOTOGRAPHS
AVAILABILITY: Society of Automotive Engineers
Inc., 800 Commonwealth Drive, Varrendale, PA
15096

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Yelona, W.D.
U.S. Dept. of Transportation, Office of Systems
Analysis and Information, Strategic Planning
Division
ADDRESS: Vashington, DC 20590
FITCH: The Role of Travel Time Limits in Urban
Growth (A Postulated Orban Area Definition)

1975; April

THE RESIDENCE OF THE PARTY OF T

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Yeziroglu, T.H. (ed.)
Yiani, University of, School of Engineering and
Environmental Design; Hami University, Clee
Energy Pesearch Institute; International
Association for Hydrogen Energy
ADDMESS: MU, Coral Gables, FL 33124
TITLE: First World Hydrogen Energy Conference.
Yolumes I - III

Proceedings of conference held March 1-3, 1976, Miasi Beach, Plorida, v.p.

1976
SPORSOR: Energy Research and Development
Administration; Miami, University of, School
of Continuing Studies
KEYWORDS: HYDROGEM; COMPERENCES; HYDROGEM
PRODUCTION; NUCLEAR EMERGY; SOLAR EMERGY;
COAL; THERMOCHEMICAL PROCESSES; GRAPHS (CHAPTS); BLECTROLYSIS; TRANSMISSION; HYDROGEN STORAGE; VERICLES; ALTERNATE FUELS; TRANSPORTATION: HYDRIDES; MATERIALS;
OTILIZATION; AIRCRAFT; AUTOHOBILES;
INDUSTRIAL SECTOR; RESIDENTIAL SECTOR;
COMBERCIAL SECTOR; ECONOMICS
AVAILABILITY: School of Continuing Studies, P.O.

Box 248005, University of Hiami, Coral Gables, FL 33124 \$75.00 (while the supply

Voltz, S.R.; Wise, J.J.
Robil Research and Development Corp.
ADDMFSS: Paulsboro, NJ 08066
TITLE: Development Studies on Conversion of Methanol and Related Oxygenates to Gasoline

Final Report, Report No. FE-1773-25, 336 p. 1976, November
SPONSOR: Energy Research and Development
Administration RTYPORDS: HETHAROL; GASOLINE; CONVERSION; ECONOSICS: TECHNOLOGY; PLUIDIZED BED PROCESSORS; TABLES (DATA); GRAPHS (CHARTS); ALTERNATE FUELS; SYNTHETIC POBLS

<742> Voorhees (Alan H.) and Associates Inc. ADDRESS: McLean, VA 22101 TITLE: Pactors and Trends in Trip Length

AVAILABILITY: WTIS

National Cooperative Highway Research Program Report 48, NAS-WRC Publication 1582, 70 p. 1968

SPONSOR: American Association of State Highway Officials: U.S. Bureau of Public Roads; Hational Academy of Sciences, Hational Research Council, Highway Research Board KEYWORDS: VEHICLE TRIPS; TRAFFIC; URBAY AREAS;

RETURNOS: VERICLE TRIPS; TRAFFIC; URBAW AREAS;
LAND USE; URBAW TRANSPORTATION;
TRANSPORTATION SISTEMS; SOCIO-ECONORIC
PACTORS; PLANKING; PORBCASTING; REASUREMENT;
TRAVEL; HODELS; INCOME; GRAPHS (CHARTS);
TABLES (DATA); TRUCKS; CORRUTING; SHOPPING
TRIPS; RECREATION; COMPUTERIZED SIMULATION;
POPULATION (STATISTICS); EMPLOYMENT
AVAILABILITY; Mational Academy of Sciences,
Highway Research Board, 2101 Constitution
Ave. NV, Washington, DC 20418 \$3.20

<743> Voorhees (Alan H.) and Associates Inc.
ADDRESS: 7798 Old Springhouse Rd., Westgate
Research Park, McLean, VA 22101
TITLE: Study of Future Paratransit Pequirements Report No. PB-264082, UNTA-IT-06-0104-77-2, 266 p.

1977, January SPONSOR: U.S. Dept. of Transportation, Urban Hass Transportation Administration KEYHORDS: FORECASTING; PARATRANSIT; URBAN AREAS; LEGAL ASPECTS; EMERGY CONSUMPTION; COSTS; LEGAL ASPECTS; EMERGY CONSUMPTION; COSTS; AUTOMOBILES; VEHICLES; MASS TRANSPORTATION; COMBUTERS; VANPOOLS; COMPARATIVE EVALUATIONS; TABLES (DATA) AVAILABILITY: MTIS

<744> Wagner, J.R.; Waughton, J.; Brooks, W.P.; Davis,

Brookhaven Mational Laboratory, Mational Center for Analysis of Energy Systems ADDRESS: Upton, MY FITLE: Light Duty Highway Fleets: The Potential for Alternative Technologies in Fleets Operated by Corporations and State and Local

Interia Briefing, presentation will be published as "Fleet Operator Vehicles: Summer 1977 Data," Report No. BML-50904

Data, "Report No. BNL-50904

1978, March 3

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation KEYNORDS: AUTOHOTIVE PLEETS: HODELS; PORECASTING; HARKET; VEHICLE REGISTRATIONS; AUTOHOBILES; HIBRID BLECTBIC-POWERED VEHICLES; PURCHASING; WEIGHT; EQUIPRENT; TROCKS; HIGHWAY TRANSPORTATION; PASSENGER TRANSPORTATION; CAPACITY; DISSEL FUELS; AUTOHOTIVE ENGINES; SIZE: TABLES (DATA) SIZE; TABLES (DATA)

<745> Wakefield, E.H. TITLE: The Consumer's Blectric Car

136 p. 1977

1977
RETWORDS: ELECTRIC VEHICLES; AUTOHOBILES; DESIGN;
PORBCASTING; REGULATIONS; ECONORICS;
EFFICIENCT; COMPARATIVE EVALUATIONS;
TECHNOLOGY; BATTERIES; OPERATION; CONTROL;
DIAGRAMS; GRAPHS (CHARTS)
AVAILABILITY: Ann Arbor Science Publishers Inc.,
230 Collingwood, P.O. Box 1425, Ann Arbor, RI
48106 \$9.95

<746> Walbridge, E.W.
Illinois, University of, College of Engineering
ADDRESS: Box 4348, Chicago, IL 60680
TITLE: Per Passenger-Hile Energy Consumption and Costs for Suburban Commuter Service Diesel

Report No. PB-242232, URTA-IL-11-0006-74-1, 59 p. 1974, August
SPONSOR: U.S. Dept. of Transportation, Urban Hass
Transportation Administration
KEYOORDS: ENERGY CONSUMPTION; DISSEL ENGINES;
RAIL TRANSPORTATION; COMMUTING; COSTS;
POLLUTION; SERVICES; AUTOMOBILES; COMPARATIVE EVALUATIONS; CHICAGO AVAILABILITY: WTIS

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Walderhaug, A.J.
U.S. Dept. of Commerce, Bureau of Economic
Ahalysis
ADDRESS: Washington, DC 20230
FITLE: Revised Input-Output Tables for the United
States: 1967

Report Wo. PB-270259, BEA-SP 77-029, 64 p.
1977, June
RETWORDS: IMPUT-OUTPUT AWALYSIS; IMDUSTRIES;
DEHAND (ECONOMICS); SUPPLY (ECONOMICS);
PRODUCTION; SALES; PRICES; INVENTORIES;
COSTS; CONSUMERS; STATISTICS; TABLES (DATA);
IMDUSTRIAL SECTOR; COMMERCIAL SECTOR;
RESIDENTIAL SECTOR; IMPORTS; TRANSPORTATION
AVAILABILITY; NTIS

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Walker, D.L.; Boord, J.O.; Pigott, J.S.; Sutton,
E.P.
Champion Spark Plug Co.
TITLE: How Passenger Car Haintenance Affects Fuel
Economy and Emissions

Paper No. 780032, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Michigan, February 27 - March 3, 1978, 12 p.

1978
REYWORDS: FUEL ECONOMY; MAINTENANCE; AUTOMOTIVE RRISSIONS: AUTOMOBILES; REPAIR: AUTOMOBILE DRIVERS; TESTING; FUEL CONSUMPTION; AUTOMOTIVE ENGINES; MILEAGE; GRAPHS (CHARTS) AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096 \$2.50

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Walz, A.
Scitzan
ADDRESS: Box 5456, Santa Barbara, CA 93108
TITLE: Contribution to the Theory of the Electric
Vehicle

Report No. N76-15376, NASA TT-F-16817, 33 p.; translated from Elektrotechnische Zeitschrift Ausgabe, 94(11), 622-631 1975, December REYNOP DS: ELECTRIC VEHICLES; HATHEHATICS; BATTERIES; HECHABICS AVAILABILITY: WTIS

<750> Ward's Communications Inc ADDRESS: 28 West Addms, Detroit, MI 48226 TITLE: Ward's Automotive Yearbook: 1978

Portieth Edition, 126 p.
1978
REYWORDS: AUTOHOTIVE INDUSTRY; INTERNATIONAL
TRADE; RECREATION VEHICLES; DIRECTORISS;
VEHICLES; HATERIALS; PRODUCTION; SALES;
TIRES; CANADA; AUTOHOBILES; HANDFACTURERS;
TRUCKS; CONSTRUCTION; EQUIPMENT; AGRICULTURAL
EQUIPMENT; IMPORMATION; VEHICLE REGISTRATIONS
RVAILABILITY: \$35.00

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Warner, P.
Ogle (David) Ltd.
ADDRESS: United Kingdom
TITLE: A Purpose-Built Electric Taxi

Paper No. 760124 presented at the Automotive Engineering Congress and Exposition, Detroit, Michigan, Pebruary 23-27, 1976, 5 p. SPONSOR: Society of Automotive Engineers KETWORDS: ELECTRIC VEHICLES; TAXICABS; DESIGN AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096 \$2.75

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Watts, W.W.
Argonne National Laboratory, Energy and
Environmental Systems Division
ADDRESS: 9700 South Cass Avenue, Argonne, IL
60439
TITLE: Social Organization and Transportation
Energy: An Annotated Bibliography

Report No. ANL-74-XX-5, 51 p.
1974, July
SPONSOR: Energy Research and Development
Administration
KEYWORDS: BIBLIOGRAPHIES; ENERGY CONSUMPTION;
AUTOMOBILES; HASS TRANSPORTATION; RAIL
TRANSPORTATION; BENEFIT COST ANALYSIS;
DECISION HAKING; LAND USE; TRANSPORTATION
SISTERS; PLANNING; FUEL CONSUMPTION; LOCAL
GOVERNMENT
AVAILABILITY: NTIS

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Webster, W.H. (ed.)
U.S. Dept. of Energy, Assistant Secretary for
Energy Technology, Division of Energy Storage
Systems
ADDRESS: Washington, DC
TITLE: Battery and Electrochemical Systems
Program Summary: FY 1977

Report No. DOE/ET-0014, v.p.
1978, April
REYNORDS: EMERGY STORAGE; BATTERIES; FUNDING;
RESEARCH PROGRAMS; UTILIZATION;
ELECTROCHEMICAL CELLS

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Weigel, W.
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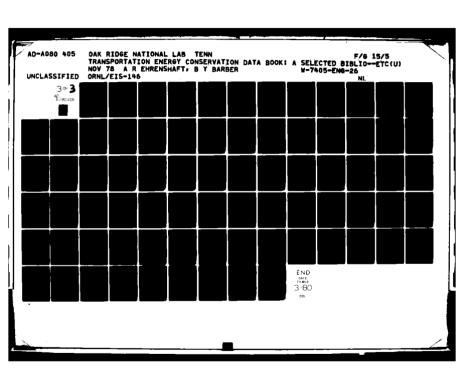
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